PC800s/900s

SERVICE MANUAL

REVISION 0

PC860		
	F13-8491	TYA00001-
PC880		
	F13-8291	TZA00001-
PC890		
	F13-8242	UAA00001-
PC920		
	F13-8431	TVB00001-
	F13-8441	PUD00001-
		PUE00001-
	F13-8461	PUH00001-
PC921		
	F13-8432	TVC00001-
PC940		
	F13-8436	TVD00001-
PC941		
	F13-8437	TVE00001-
PC950		
	F13-8231	TVF00001-
	F13-8241	PUF00001-
		PUG00001-
PC960		
	F13-8434	TVG00001-
PC980		
	F13-8232	TVH00001-
PC981		
	F13-8233	TVJ00001-

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AUG. 1999 FY8-13GA-000

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INTRODUCTION

This service manual has been prepared for the PC800/900 Series machines, providing basic information used for servicing the machines in the field so as to ensure their quality and performance.

This service manual consists of the following chapters:

Chapter 1 *General Description* introduces the machine's features, specifications, names of parts, and how originals are reproduced.

Chapter 2 *Basic Operation* explains how copies are made on a step-by-step basis.

Chapter 3 *Exposure System* discusses the principles of operation used for the machine's exposure system. It also explains the timing at which exposure-related mechanisms are operated, and shows how they may be disassembled/assembled and adjusted.

Chapter 4 *Image Formation System* discusses the principles of operation used for the machine's image formation system. It also explains the timing at which image formation-related mechanisms are operated, and shows how they may be disassembled/assembled and adjusted.

Chapter 5 *Pick-Up/Feeding System* discusses the principles of operation used for the machine's pickup/feeding system. It also explains the timing at which pickup/feeding-related mechanisms are operated, and shows how they may be disassembled/assembled and adjusted.

Chapter 6 *Fixing System* discusses the principles of operation used for the machine's fixing system. It also explains the timing at which fixing-related mechanisms are operated, and shows how they may be disassembled/assembled and adjusted.

Chapter 7 *Externals/Auxiliary Mechanisms* discusses the principles of operation used for the machine's externals/auxiliary mechanisms. It also explains the timing at which auxiliary mechanism-related mechanisms are operated, and shows how they may be disassembled/assembled and adjusted.

Chapter 8 *ADF* explains the principles of operation of the ADF in view of electrical and mechanical functions and in relation to their timing of operation. It also shows how the unit may be disassembled/assembled and adjusted.

Chapter 9 *Installation* introduces requirements for the site of installation, and shows how the machine may be installed using step-by-step instructions.

Chapter 10 *Maintenance and Servicing* provides tables of periodically replaced parts and consumables/durables and scheduled servicing charts.

Chapter 11 *Troubleshooting* provides tables of maintenance/inspection, standards/adjustments, and problem identification (image fault/malfunction).

Appendix contains a general timing chart and general circuit diagrams.

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The following rules apply throughout this Service Manual:

1. Each chapter contains sections explaining the purpose of specific functions and the relationship between electrical and mechanical systems with reference to the timing of operation.
   In the diagrams, ⊐■■■⊏ represents the path of mechanical drive—where a signal name accompanies the symbol ⟶▶, the arrow indicates the direction of the electric signal.
   The expression “turn on the power” means flipping on the power switch, closing the front door, and closing the delivery unit door, which results in supplying the machine with power.
2. In the digital circuits, ‘1’ is used to indicate that the voltage level of a given signal is “High,” while ‘0’ is used to indicate “Low.” (The voltage value, however, differs from circuit to circuit.)
   In practically all cases, the internal mechanisms of a microprocessor cannot be checked in the field. Therefore, the operations of the microprocessors used in the machines are not discussed: they are explained in terms of from sensors to the input of the DC controller PCB and from the output of the DC controller PCB to the loads.

The descriptions in this Service Manual are subject to change without notice for product improvement or other reasons, and major changes will be communicated in the form of Service Information bulletins.

All service persons are expected to have a good understanding of the contents of this Service Manual and all relevant Service Information bulletins and be able to identify and isolate faults in the machine.

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• This service manual covers the models shown in the following table. Be sure to have a good understanding of the difference from model to model before referring to this manual.

Model	Type code	Multi-feeder	Single feeder	Zoom	Default ratio	Density correction switch (SW101)	ADF as standard	Cassette	Copying speed (cpm) at Direct
PC860	TYA		√	√	2R2E	√		250 sheets	12
PC880	TZA	√		√	2R2E	√		250 sheets	12
PC890	UAA	√		√	2R2E	√	√	250 sheets	12
PC920	PUD		√	√	2R2E	√		Universal	10
PC920	PUE		√	√	2R2E	√		Universal	10
PC920	PUH		√	√	2R2E	√		Universal	10
PC920	TVB		√	√	3R1E			Universal	10
PC921	TVC		√		3R1E			Universal	10
PC940	TVD		√	√	3R1E			Universal	13
PC941	TVE		√		3R1E			Universal	13
PC950	PUF	√		√	2R2E	√		Universal	12
PC950	PUG	√		√	2R2E	√		Universal	12
PC950	TVF	√		√	3R1E			500 sheets	13
PC960	TVG	√		√	3R1E		√	Universal	10
PC980	TVH	√		√	3R1E		√	500 sheets	13
PC981	TVJ	√			3R1E		√	500 sheets	13

The notation "√" indicates that the item in question is available.

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CHAPTER 1

GENERAL DESCRIPTION

This chapter provides specifications of the machine, instructions on how to operate the machine, and an outline of copying process.

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I. FEATURES

1. Personal Copier with a Zoom Function and a Fixed Copyboard

- You can choose either a default enlargement/reduction ratio or any ratio between 70% and 141% in 1% increments.

2. Ecology-Conscious

- The use of a roller charging method has resulted in a considerable reduction of ozone: 0.01 ppm or less on the average, 0.02 ppm or less at maximum (1/100 to 1/1000 compared with existing Canon machines).

3. SURF Fixing Assembly

- The wait time is 0 sec (at 20°C room temperature), enabling speedy copying work immediately after power-on.

4. Various Paper Sizes

- The paper may be between A4 (LGL) and A5 (STMT) (*Using the universal cassette).
- In manual feed mode, paper may be as large as A4 (LGL) or as small as a business card.

5. All-in-One Cartridge for Simple Maintenance

- The photosensitive drum, toner case, charging roller, developing assembly, and cleaning assembly are constructed as a single entity (cartridge).
  The user may expect quality copy images at all times as long as he/she performs simple replacement/cleaning work.

6. Large Paper Source

- The source of paper may contain as many as 550 sheets of paper (500-sheet cassette + multifeeder; multifeeder type).

7. Separate top unit

- The machine's top unit may be opened to make jam removal easy.

8. ADF Type

- Continuous copying is possible with the use of the ADF.

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II. SPECIFICATIONS

A. Copier

1. Type

Item	Descriptions
Body	Desk top
Copyboard	Fixed
Source of light	Halogen lamp (80 V/110 W for 120V-model; 150 V/160 W for 220/240 V-model)
Lens	Fixed focal point lens
Photosensitive medium	OPC drum (24-mm dia.)

Table 1-201

2. Mechanisms

Item	Descriptions
Reproduction	Indirect static reproduction
Charging	Roller (direct charging)
Exposure	Slit (moving light source)
Copy density adjustment	Auto or manual
Development	Dry (toner projection)
Pickup	Cassette (1 pc.) Single-feeder (single-feeder type) Multifeeder (multifeeder type)
Separation	Curvature separation + static eliminator
Fixing	Flat heater
Cleaning	Blade
Original orientation	Center reference (copyboard)

Table 1-202

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3. Performance

Item	Descriptions
Original type	Sheet, book, 3-D object (2kg max.)
Maximum original size	A4 (297 × 210 mm)/LGL (216 × 356 mm)
Reproduction ratio	Inch/AB-configuration: 2R2E Inch-configuration: 3R1E
Zoom	70% to 141% (in 1% increments[*1])
Wait time	0 sec (at 20°C room temperature)
First copy time	10 sec or less (at 20°C room temperature; Direct, non-AE, from the cassette)
Continuous copying	100 (max.)
Copy size	A4/LGL (297 × 210 mm/216 × 356 mm max.) Business card (90 × 55 mm, min.)
Copy paper type	Cassette: Plain paper (64 to 80 g/m^2), tracing paper (SM-1, A4R/B5R), colored paper, recycled paper (64 to 80 g/m^2; A4R/B5R), eco paper (80 g/m^2; A4R) Manual Feeder: Plain paper (52 to 128 g/m^2), tracing paper (SM-1, GNT-80[*2]; A4R/B5R), transparency[*2,*4] (A4R/LTRR[*3]), colored paper, business card (200 g/m^2 or less), label sheet[*2] (A4R/LTRR), recycled paper (64 to 80 g/m^2; A4R/B5R), eco paper (80 g/m^2; A4R), postcard[*3] Double-Sided/Overlay Copying[*5]: Plain paper (64 to 128 g/m^2), colored paper, business card (200 g/m^2 or less), recycled paper (64 to 80 g/m^2; A4R/B5R), eco paper (80 g/m^2; A4R), postcard[*3]
Cassette	With claws Universal cassette (250 sheets of 80 g/m^2 paper; A4/LGL to A5/STMT) 250-sheet cassette (250 sheets of 80 g/m^2) 500-sheet cassette (500 sheets of 80 g/m^2)
Multifeeder tray	5 mm deep (approx.; 50 sheets of 80 g/m^2)
Copy tray	100 sheets (A4; 80 g/m^2)
Non-image width	Leading edge: 2.0 ±1.5 mm (Direct; 4.0 mm or less otherwise) Left/right: 0.0 +2.0, -0.0 mm (0 +4.0, -0.0 mm for LTR)
Auto power-off	Provided (5 min, approx.; fixed)[*6]

Table 1-203

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*1. Applies only to models with a zoom function.
*2. Applies only to single pickup if the multifeeder is used.
*3. Applies only to vertical feeding.
*4. Upon delivery, be sure to remove each from the copy tray.
*5. Be sure to remove any curling before feeding for a second time.
*6. If stopped because paper ran out during copying operation, 1 hr.

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4. Others

Item	Descriptions
Operating condition Temperature Humidity Atmospheric pressure	 7.5°C to 32.5°C/44.5°F to 90.5°F 5% to 85% RH 607.95 to 1013.25 hPa (0.6 to 1 atm)
Power source	120 V 60 Hz 220/240 V 50 Hz, 60 Hz
Serial number	TVBxxxxx PUDxxxxx PUHxxxxx TVCxxxxx PUExxxxx TVDxxxxx PUFxxxxx TVExxxxx PUGxxxxx TVFxxxxx TYAxxxxx TVGxxxxx TZAxxxxx TVHxxxxx UAAxxxxx TVJxxxxx
Maximum power consumption	0.9 kW or less Standby: 1.2W (approx.; about 5min; reference only) Copying: 0.4kWh (approx.; reference only)
Noise	Standby: -(sound power level by ISO) Copying: (sound power level by ISO) • Single-feeder type: 68 dB or less • Multifeeder type: 66 dB or less
Ozone	0.01 ppm or less (average; 0.02 ppm or less, max.)
Dimensions (WxDxH)	Copyboard Type 484.9 × 448.2 × 297.5 mm[*1]/ 329.0 mm[*2] 19.1 in. × 17.6 in × 11.7 in[*1]/ 13.0 in[*2] ADF Type 484.9 × 448.2 × 358.3 mm[*1]/ 389.8 mm[*2] 19.1 in × 17.6 in × 14.1 in[*1]/ 15.3 in[*2]
Weight (including the cassette)	Copyboard Type Single-feeder type: 19.3 kg[*1]/ 42.5 lb[*1], 20.9 kg[*2]/ 46.0 lb[*2] Multifeeder type: 19.5 kg[*1]/ 42.9 lb[*1], 21.1 kg[*2]/ 46.4 lb[*2] ADF Type Single-feeder type: 23.8 kg[*1]/ 52.4 lb[*1], 25.2 kg[*2]/ 55.4 lb[*2] Multifeeder type: 24.0 kg[*1]/ 52.8 lb[*1], 25.4 kg[*2]/ 55.9 lb[*2]
Consumables	Copy paper: Keep wrapped, and protect against humidity. Toner: Avoid direct sunlight, and store at 40°C/104°F, 85% or less.

Table 1-204

*1. 250-sheet cassette type
*2. 500-sheet cassette type

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5. Default Ratios

Item	2R2E (Inch/AB-configuration)	3R1E (Inch-configuration)
Direct	1:1.000	1:1.000
Reduce I	1:0.707	1:0.707
Reduce II		1:0.786
Reduce III	1:0816	
Reduce IV		1:0.860
Enlarge I	1:1.154	
Enlarge II	1:1.414	1:1.414

Table 1-205

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6. Copying Speed

Copying speed at Direct	Reproduction ratio	Copy size	Number of copies (Multifeeder*1) (Copies / min)
13	Direct	LTRR	13 (9)
		LGL	11 (8)
		STMTR	13 (9)
	Reduce I (70.7%)	MIN	13 (9)
	Reduce II (78.6%)	LGL → LTRR	13 (9)
	Reduce IV (86.0%)	MARJIN	13 (9)
	Enlarge II (141.4%)	MAX	10 (9)
12	Direct	A4R	12 (9)
		B5R	12 (9)
		A5R	12 (9)
	Reduce I (70.7%)	A4R → A5R	12 (9)
	Reduce III (81.6%)	B5R → A5R	12 (9)
	Enlarge I (115.4%)	B5R → A4R	12 (9)
	Enlarge II (141.4%)	A5R→ A4R	10 (9)
10	Direct	A4R	10 (9)
		B5R	10 (9)
		A5R	10 (9)
	Reduce I (70.7%)	A4R → A5R	10 (9)
	Reduce III (81.6%)	B5R → A5R	10 (9)
	Enlarge I (115.4%)	B5R → A4R	10 (9)
	Enlarge II (141.4%)	A5R → A4R	10 m(9)
10	Direct	LTRR	10 (9)
		LGL	9
		STMTR	10 (9)
	Reduce I (70.7%)	MIN	10 (9)
	Reduce II (78.6%)	LGL → LTRR	10 (9)
	Reduce III (86.0%)	MARJIN	10 (9)
	Enlarge II (141.4%)	MAX	9

Table 1-206

*1. The number of copies starting with the pickup operation that follows the delivery of the 19th copy in a continuous copying job. (See p.5-8)

The specifications are subject to change for product improvement.

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B. ADF

Item	Descriptions
Original pickup	Auto pickup/delivery
Original orientation	Face-down
Original position	Center reference
Original separation	Top separation
Original type	Single-sided (50 to 128 g/m^2) A5 (STMT) to A4R (LTRR), LGL Length: 139.7 to 355.6 mm (feeding direction) Width: 139.7 to 215.9 mm
Stack	30 sheets (80 g/m^2 or less; about 3 mm in height)
Original processing mode	Single-sided original to single-sided copy
Original size detection	Yes (in feeding direction)
Mixed original sizes	No
Original detection	Yes
Original feeding speed	446 mm/sec
Communication with host	IPC
Dimensions	Width: 474 mm/ 18.7 in. (659 mm/ 25.9 in. with the tray open) Depth: 394 mm/ 15.5 in. Height: 74 mm/ 2.9 in. (216 mm/ 8.5 in. with the tray open)
Weight	5 kg/ 11 lb (approx.)
Power source	24 VDC and 5 VDC (from the host)
Maximum power consumption	40 W or less
Operating environment	Temperature: same as the host Humidity: same as the host

Table 1-207

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*1. The following may not be used as an original:
- Sheet with a staple, clip, or glue.
- Sheet with a cut, hole, or tear.
- Sheet with holes for binding.
- Sheet with a carbon back.
- Sheet with a cut-and-paste piece.
- Sheet with curling, bending, or wrinkling.

The specifications are subject to change for product improvement.

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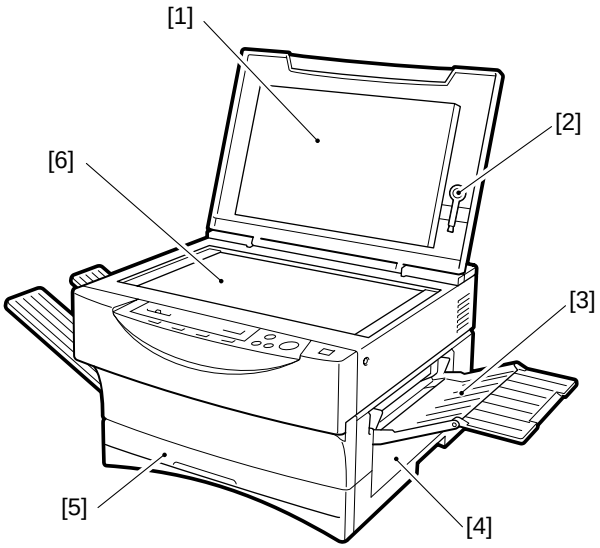
III. NAMES OF PARTS

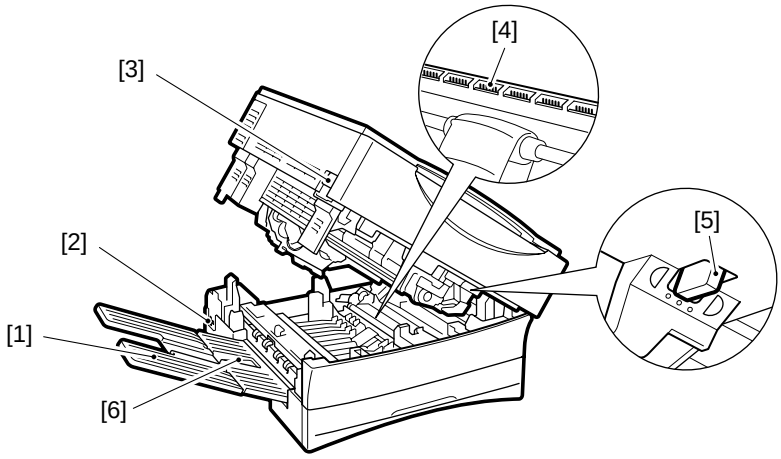
A. External View

1. Copyboard Type



[1] Copyboard cover
[2] Static eliminator cleaner
[3] Manual feed tray
[4] Right door
[5] Cassette
[6] Copyboard glass

Figure 1-301



[1] Copy tray
[2] Power cord connector
[3] Open/close lever
[4] Static eliminator
[5] Copy density correction switch
[6] Delivery guide plate

Figure 1-302

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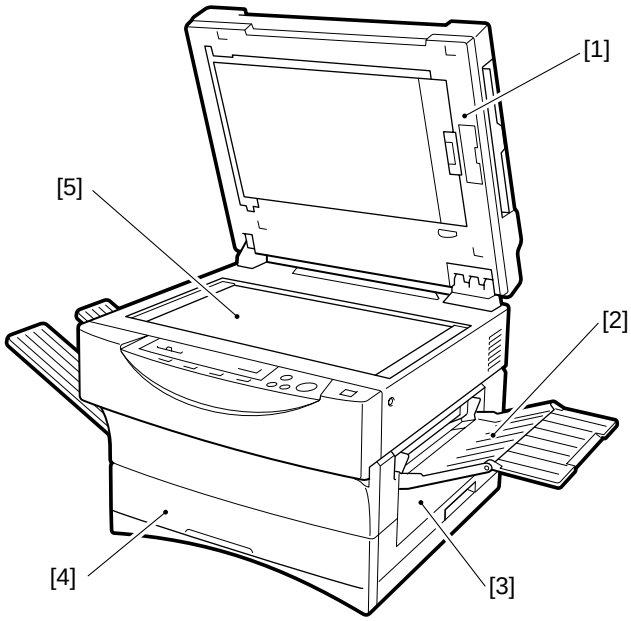
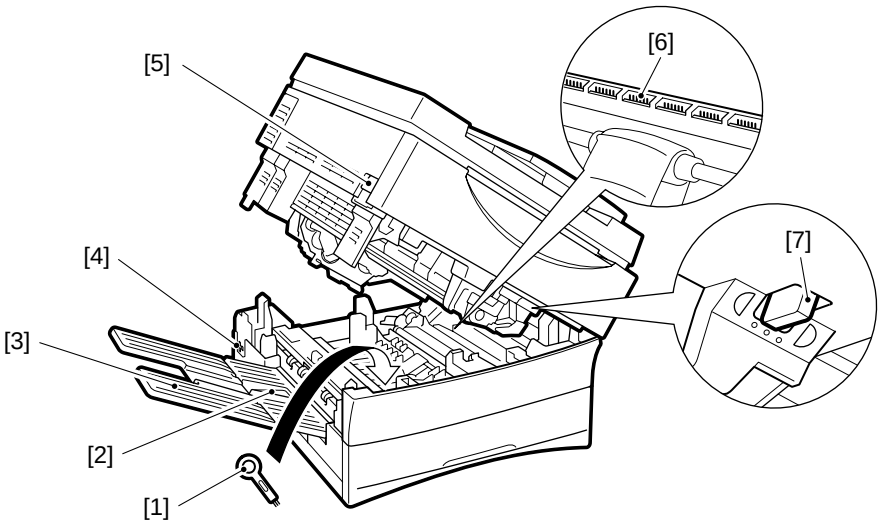
2. ADF Type



[1] ADF
[2] Manual feed tray
[3] Right door
[4] Cassette
[5] Copyboard glass

Figure 1-303



[1] Static eliminator cleaner
[2] Delivery guide plate
[3] Copy tray
[4] Power cord connector
[5] Open/close lever
[6] Static eliminator
[7] Copy density correction switch

Figure 1-304

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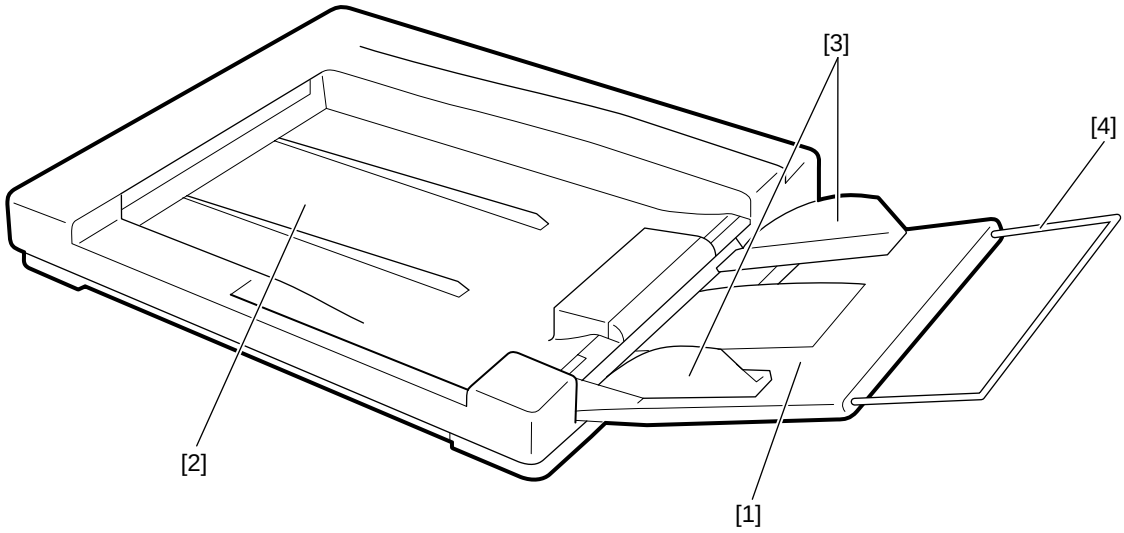
3. ADF



[1] Original tray
[2] Original delivery tray
[3] Slide guide
[4] Auxiliary tray

Figure 1-305

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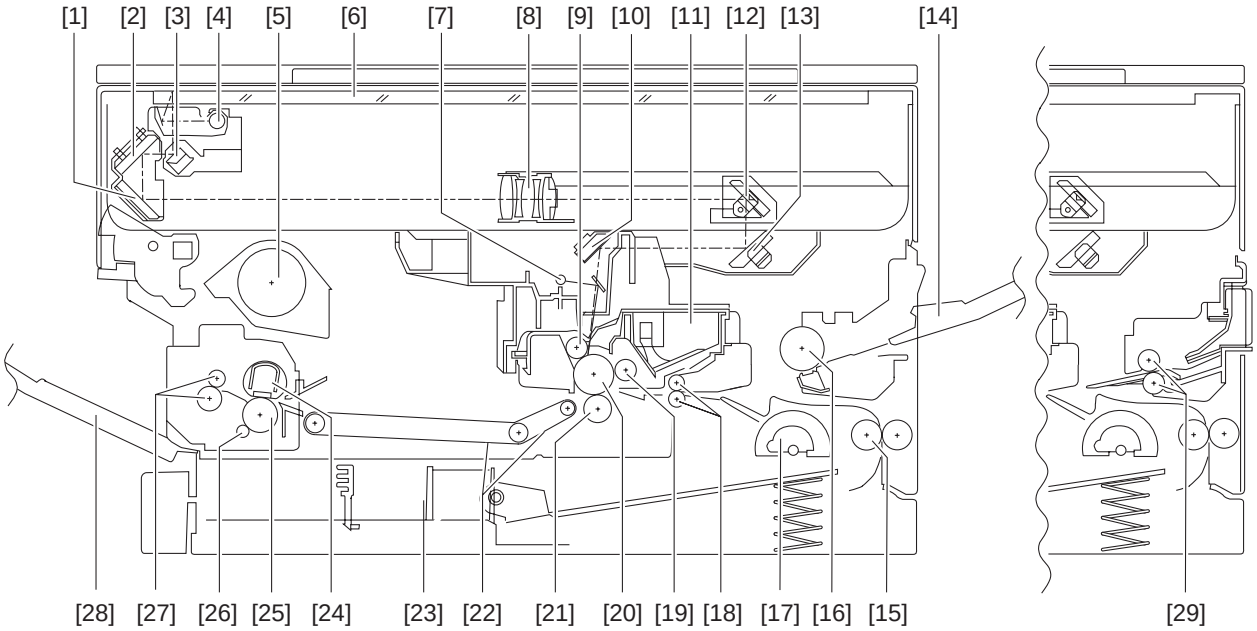
B. Cross Section

1. Body



[1] No. 3 mirror
[2] No. 2 mirror
[3] No. 1 mirror
[4] Scanning lamp
[5] Heat exhaust fan
[6] Copyboard glass
[7] Side blanking lamp
[8] Lens
[9] Primary charging roller
[10] No. 6 mirror
[11] Cartridge
[12] No. 4 mirror
[13] No. 5 mirror
[14] Multifeeder tray
[15] Vertical path roller
[16] Multifeeder pickup roller
[17] Cassette pickup roller
[18] Registration roller
[19] Developing cylinder
[20] Photosensitive drum
[21] Transfer roller
[22] Feed belt
[23] Cassette
[24] Fixing upper unit
[25] Fixing lower roller
[26] Cleaning roller
[27] Delivery roller
[28] Copy tray
[29] Single-feeder pickup roller

Figure 1-306

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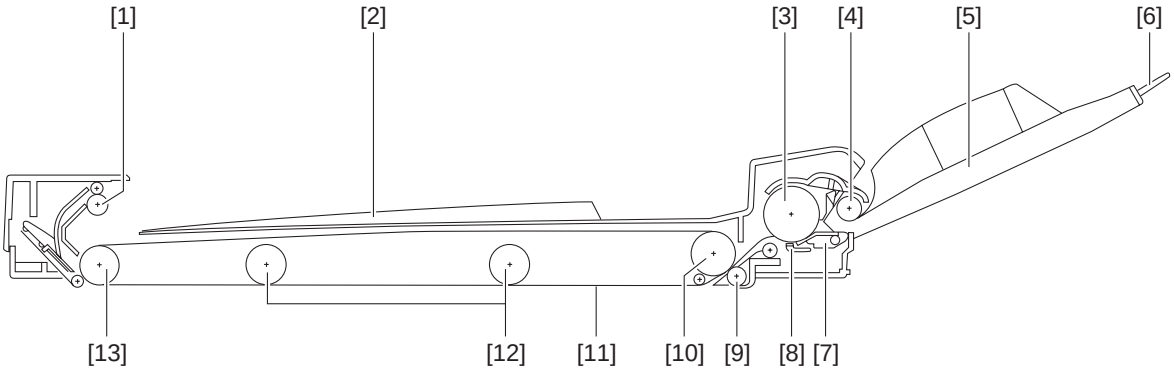
2. ADF



[1] Delivery roller
[2] Copy tray
[3] Pickup roller 2
[4] Pickup roller 1
[5] Copyboard tray
[6] Auxiliary tray
[7] Guide plate
[8] Separation pad
[9] Registration roller
[10] Feed belt drive roller
[11] Feed belt
[12] Feed belt roller
[13] Feed belt link slave roller

Figure 1-307

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IV. USING THE MACHINE

A. Control Panel

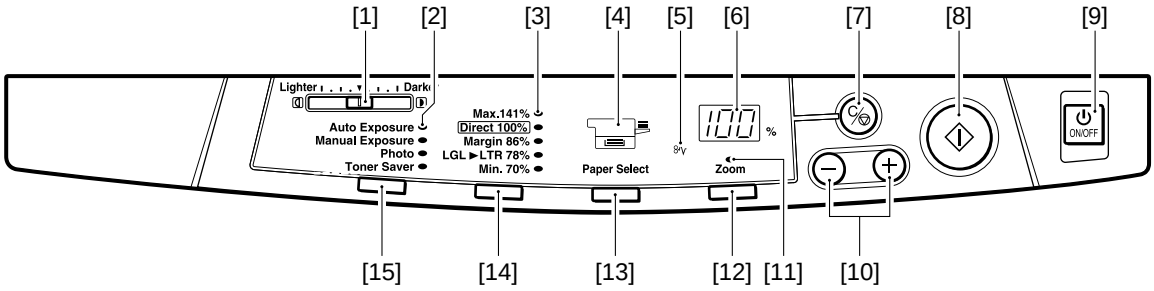

Figure 1-401

No.	Name	Description	Remarks
1	Copy density adjusting lever	Adjusts the density of copies manually.	
2	Copy density mode indicator	Indicates the selected copy density mode.	
3	Default ratio indicator	Indicates the selected default ratio.	
4	Paper selection indicator*1	Indicates the selected cassette/ manual feed tray.If there is no paper loaded, it flashes.	
5	Jam indicator	Flashes in response to a jam.	
6	Count/ratio indicator	• Indicates the number of copies or reproduction ratio. • The symbol "%" turns on when indicating a ratio.	100 (max.; continuous copying)
7	Clear/stop key	Stops copying or returns copying mode to standard mode.	Standard Mode Ratio: 100% Count: 1 Paper source: cassette Copy density: auto mode
8	Copy start key	Starts copying.	
9	Power switch	Turns on and off the power.	

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No.	Name	Description	Remarks
10	Count/zoom set key	Sets the number of copies or a zoom ratio.	
11	Zoom indicator*2	Turns on when zoom mode is selected.	
12	Zoom key*2	Selects/deselects zoom mode.	May be between 70% and 141% in 1% increments.
13	Paper selection key*1	Selects the cassette/ manual feed tray.	
14	Default ratio key	Selects a default reproduction ratio.	
15	Copy density mode selection key	Selects copying density mode.	

Table 1-401

*1. Applies only to a multifeeder model.
*2. Applies only to a model equipped with a zoom function.

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V. ROUTINE MAINTENANCE BY THE USER

Instruct the user to clean the following if images tend to be soiled or copy paper tends to jam often.

1. Soiled Images

a. Copyboard Glass/Copyboard Cover
Clean the cover with a moist cloth (with water or mild detergent solution); then, dry wipe it.

b. Feeding Belt (ADF type)

b.1 Cleaning in Feeder Cleaning Mode

1) Turn on the machine, and hold down the Copy Density Mode Selection key for 4 sec or more.
   - The count/ratio indicator will indicate ‘U6’.

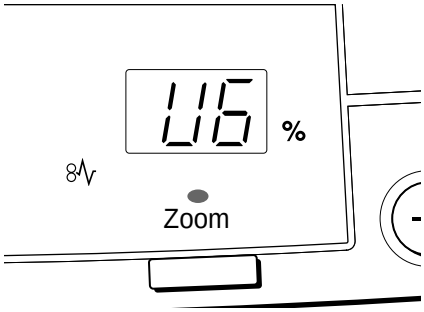

Figure 1-501

2) Place about 10 sheets of blank copy paper (A4/LTR) on the original tray of the ADF.
3) Press the Copy Start key.
   - Copy paper will be fed from the original tray.
   - The indicator flashes ‘U6’ while the feeder is being cleaned.
4) Press the Copy Density Mode Selection key to end the mode.

Caution:

- You cannot start feeder cleaning mode while the machine is making copies or if an error exists.
- The auto power-off mechanism does not operate while feeder cleaning mode is being executed.

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b.2 Cleaning by Hand

1) Wipe the feed belt with a moist cloth (water or mild detergent solution) in the direction of the arrow in the figure; then, dry wipe it.

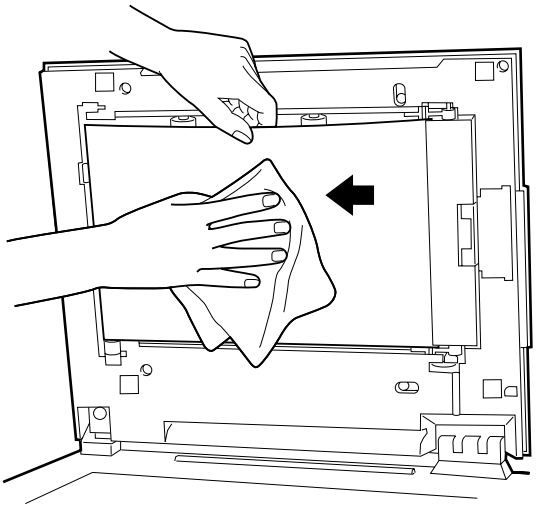

Figure 1-502

2. If Jams Occur Frequently

a. Static Eliminator

1) Remove the static eliminator cleaner from the machine.

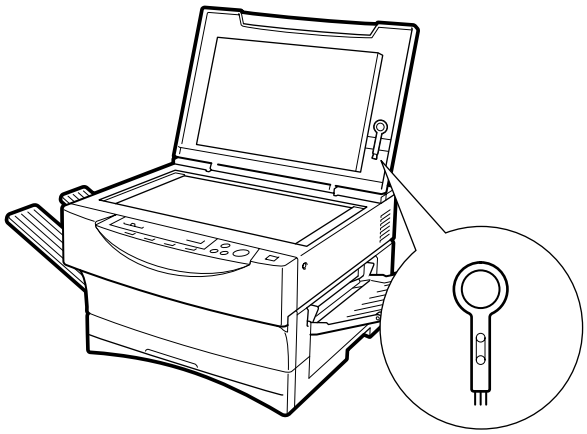

Figure 1-503 (Copyboard type)

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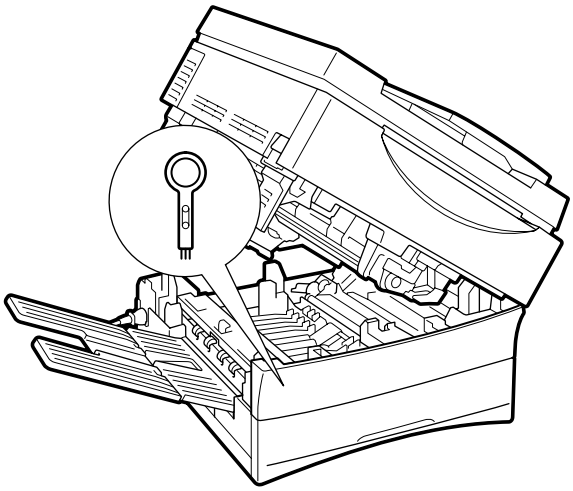

Figure 1-504 (ADF type)

2) Pull the open/close lever to open the machine.
3) Using the static eliminator cleaner, clean the static eliminator.
   - Brush out the paper lint or the like from the groove of the static eliminator.

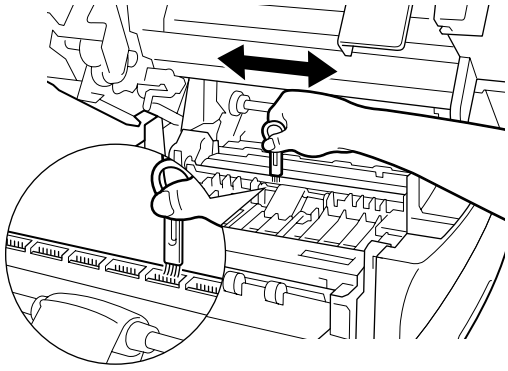

Figure 1-505

4) Close the machine as soon as you have finished cleaning. (Work briskly.)

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VI. IMAGE FORMATION

A. Outline

The construction of the machine is as follows:

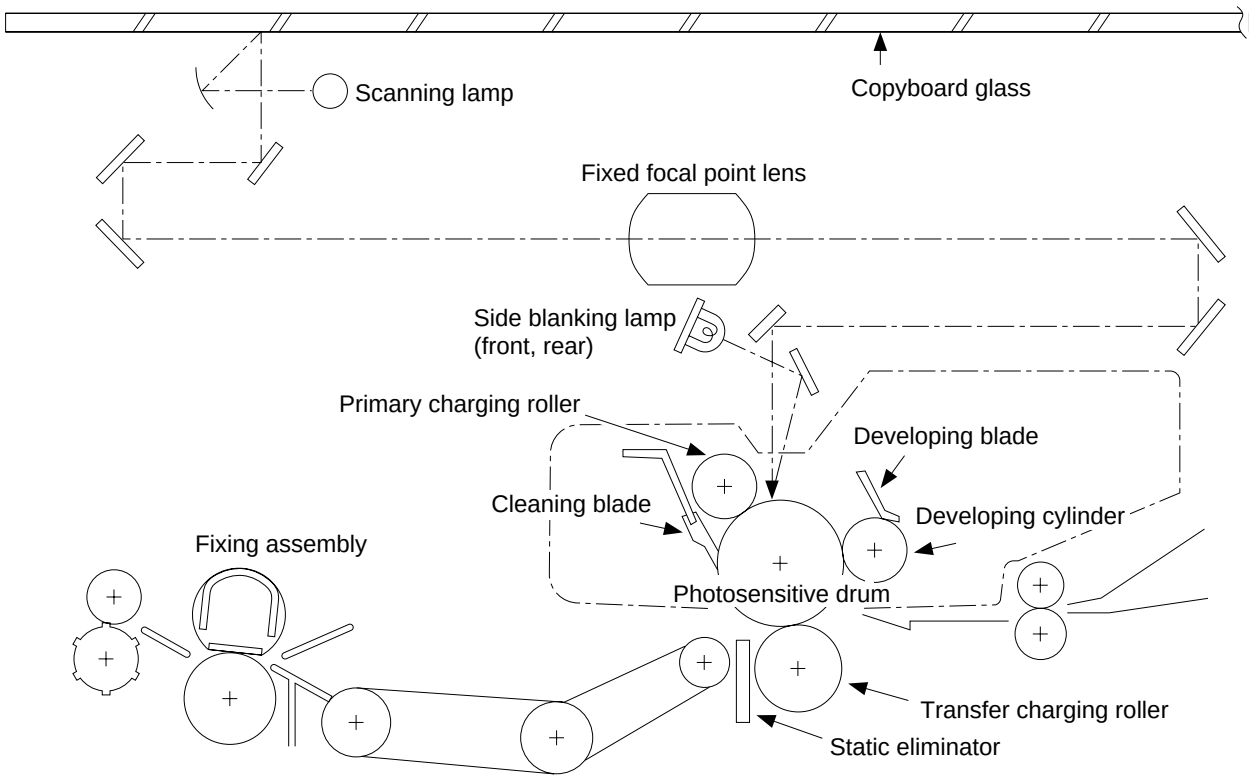

Figure 1-601

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The machine's image formation process consists of the following seven steps:

Step 1 Primary charging (AC + negative DC)
Step 2 Image exposure
Step 3 Development (AC + negative DC)
Step 4 Transfer (negative DC)
Step 5 Separation (curvature separation + static eliminator; positive DC)
Step 6 Fixing
Step 7 Drum cleaning

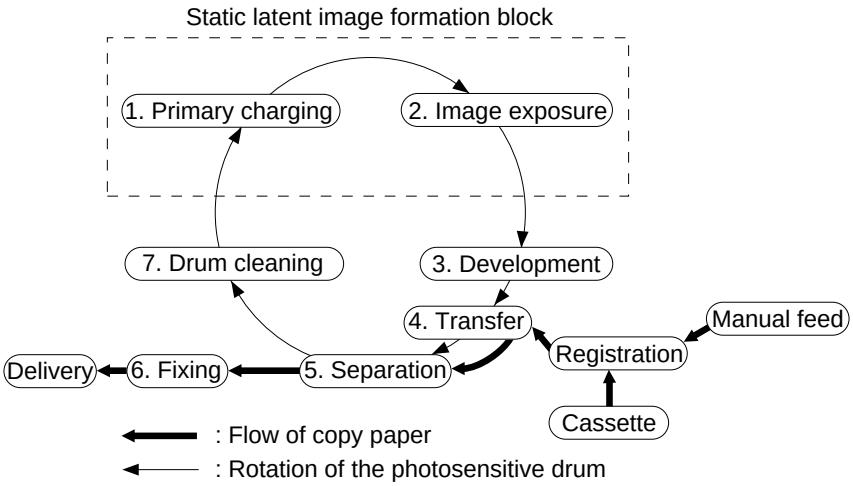

Figure 1-602

CHAPTER 2

BASIC OPERATION

This chapter provides descriptions on basic operations, functions of each operation, relationships between electrical and mechanical systems, and timing at which each associated part is turned on.

Process speed	96 mm/sec

I. BASIC OPERATIONS 2-1
- A. Functional Construction 2-1
- B. Outline of Electrical Circuitry 2-2
- C. Basic Sequence of Operations 2-3
- D. Controlling the Main Motor (M1) 2-5
- E. Inputs to and Outputs from the DC Controller 2-7

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I. BASIC OPERATIONS

A. Functional Construction

The machine consists of four functional blocks: pickup/feeding system, exposure system, image formation system, and control system.

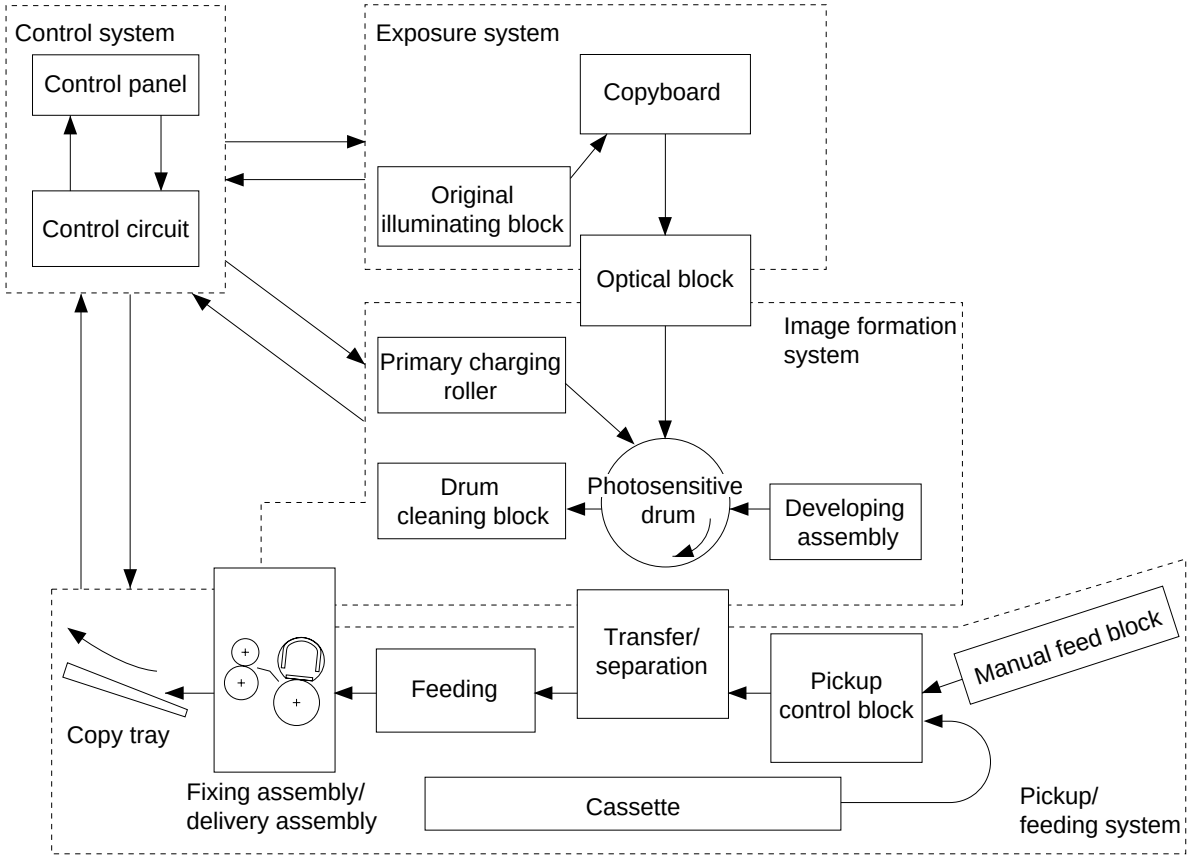

Figure 2-101

B. Outline of Electrical Circuitry

The machine's major electric mechanisms are controlled by the microprocessor mounted on the DC controller PCB, which reads input signals from sensors and operating keys according to the instructions of the program stored in advance and sends signals used to drive motors, solenoids, lamps, and other loads as needed.

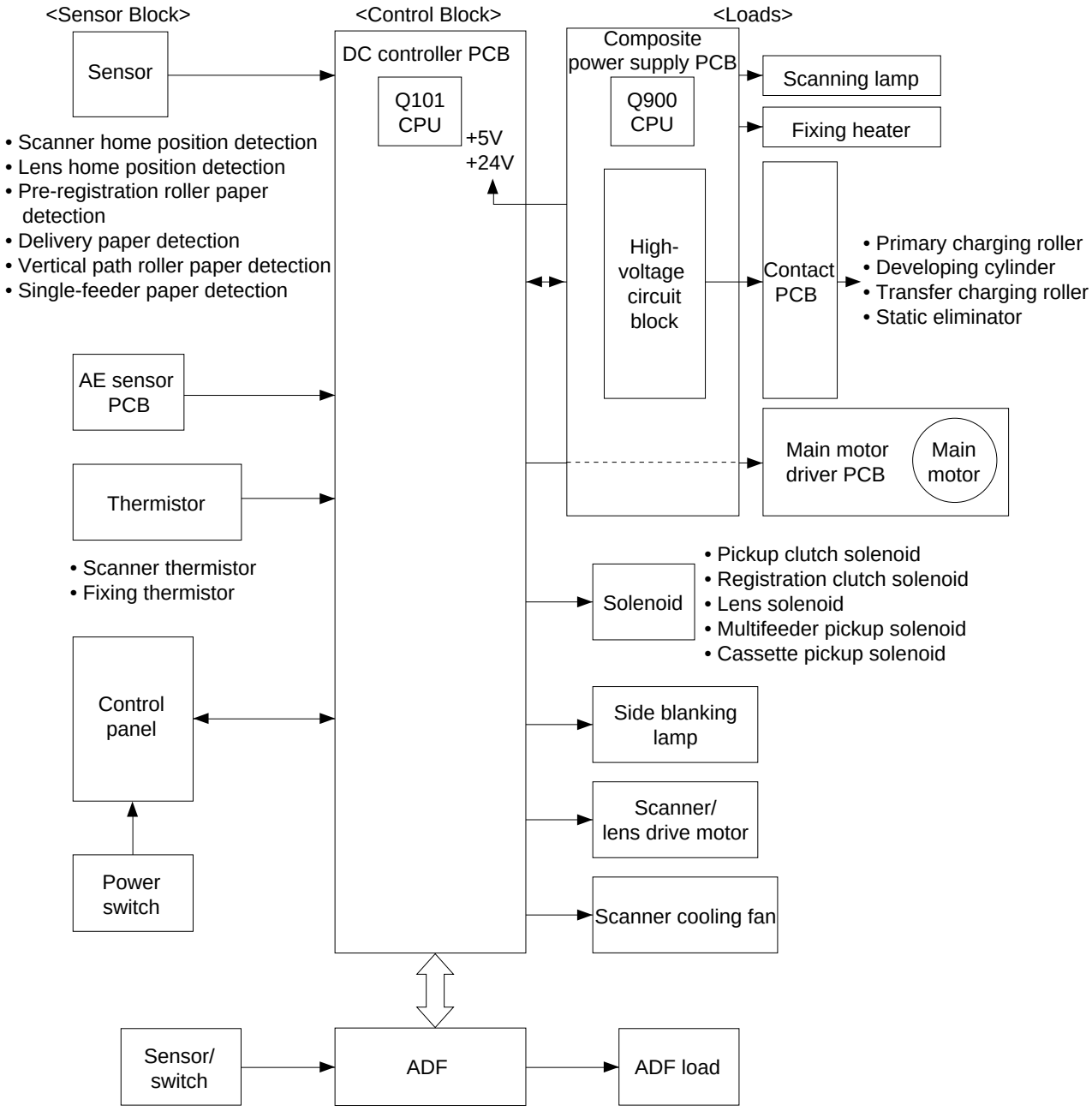

Figure 2-102

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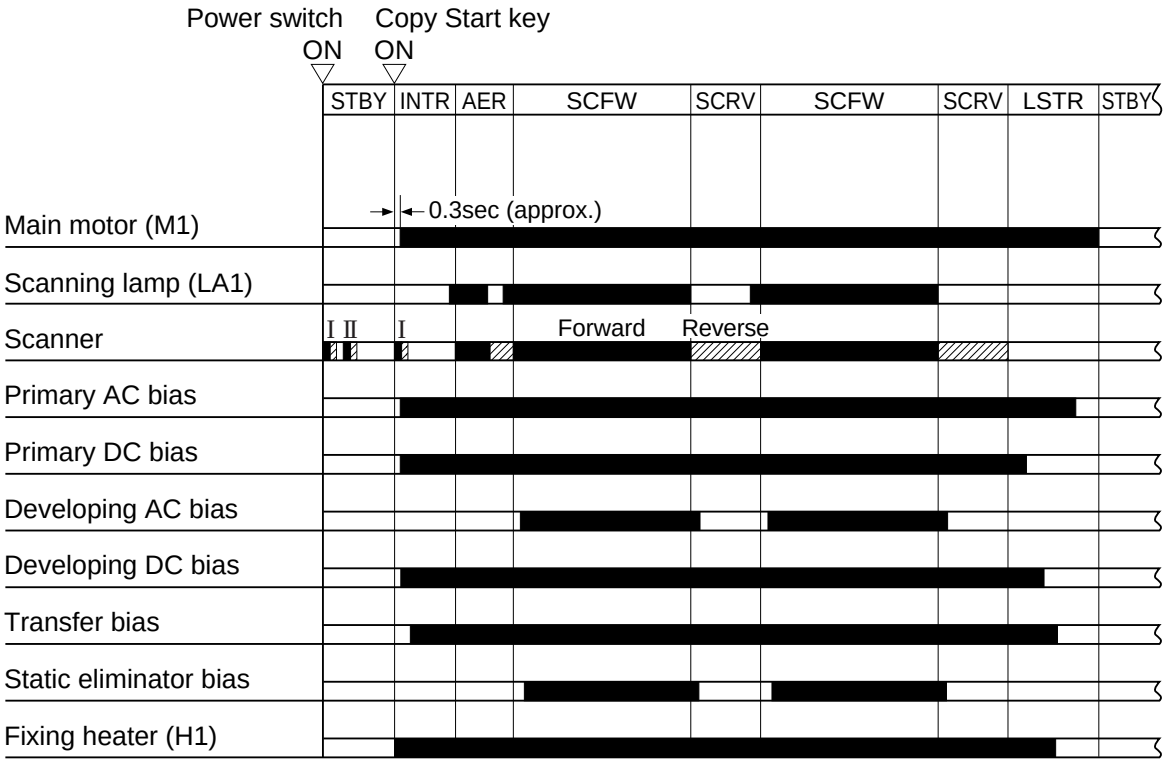
C. Basic Sequence of Operations

• A4R, Direct, 2 Copies, Continuous, Cassette



I : Scanner home position detection
Ⅱ: Lens home position detection

Figure 2-103

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	Period	Description
STBY (standby)	• From when he power switch is turned on to when the Copy Start key is pressed. • From when LSTR ends to when the Copy Start key is pressed.	Waits until the Copy Start key is pressed.
INTR (initial rotation)	From when the Copy Start key is pressed to when the scanner moves forward.	Removes residual charges from the photosensitive drum, thereby ensuring a stable drum sensitivity.
AER (AE rotation)	While the scanner moves forward about 10 cm and then moves it in reverse.	Measures the density of the original.
SCFW (scanner forward)	While the scanner is moving forward. • The distance varies according to the selected copy size and reproduction ratio. • The forward speed varies according to the selected reproduction ratio.	Illuminates the original by the scanning lamp, and the reflected optical image is projected to the photosensitive drum through mirrors and lenses.
SCRV (scanner reverse)	While the scanner is moving in reverse. • The reverse speed is about 3.3 as fast as the forward speed used in Direct.	Moves the scanner to the home position in preparation for the next copying run.
LSTR (last rotation)	From when SCRV ends to when the main motor stops.	Neutralizes the drum surface potential as post-processing.

Table 2-101

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D. Controlling the Main Motor (M1)

1. Outline

Table 2-102 shows the functions of the main motor control circuit, and Figure 2-104 is a block diagram of the circuit.

Item	Description
Power supply	24 VDC from the composite power supply.
Drive signal	Signal (MMD) from the DC controller PCB.
Moving/drive parts	Photosensitive drum, primary charging roller, developing assembly, transfer charging roller, pickup roller, vertical roller, registration roller, feeding assembly, fixing assembly, delivery roller, heat exhaust fan
Control	Executes on/off control. Executes constant speed rotation control.
Error detection	Issues 'E010'.

Table 2-102

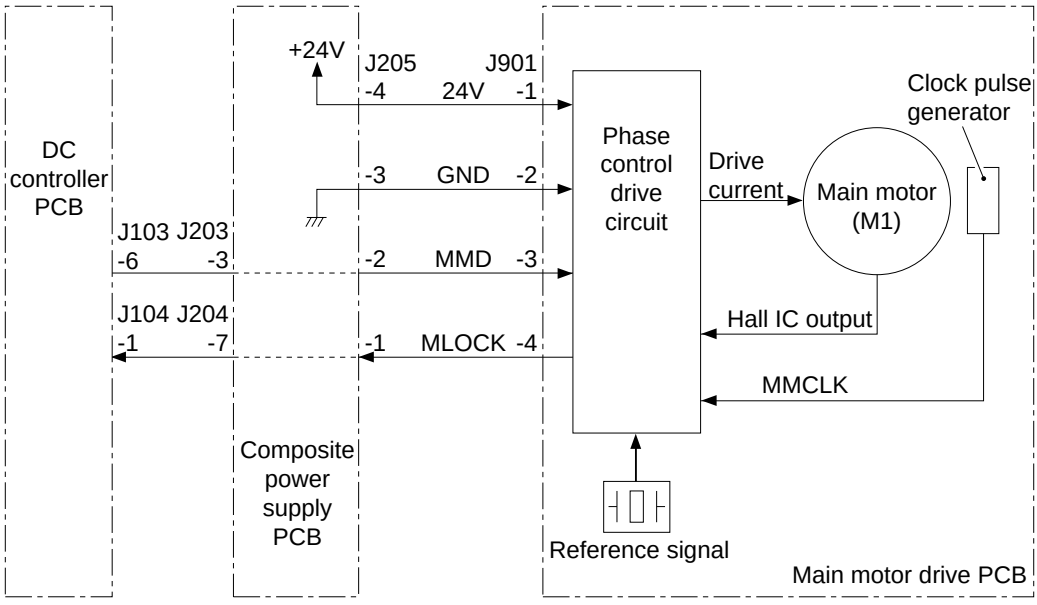

Figure 2-104

2. Operations

The main motor (M1) is a DC motor with a built-in clock pulse generator, which generates clock pulses (MMCLK) in relation to the rotation of the motor while the motor is rotating.

The speed control circuit controls the main motor (M1) so that it rotates at a specific speed by matching the frequency of these clock pulses and that of the reference signals.

When the main motor drive signal (MMD) from the DC controller circuit goes '1', the motor diver drive circuit turns on, causing the main motor (M1) to rotate at a specific speed.

While the main motor is rotating at a specific speed, the main motor driver PCB keeps sending the constant speed state signal (MLOCK=0) to the DC controller PCB. If the rotation of the motor starts to have fluctuations, the MLOCK signal goes '1'.

Related Error Code

E010
While the main motor drive signal is generated, the rotation of the main motor deviates from a specific number for 1 sec or more.

a. Turning On/Off the Main Motor

When the main motor drive signal (MMD) from the DC controller circuit goes '1', the main motor driver turns on to rotate the main motor (M1).

b. Rotating the Main Motor at a Constant Speed

The drive circuit on the motor driver PCB controls the main motor so that the phase of the frequency of the clock pulse signals (MMCLK) occurring when the motor rotates and that of the frequency of the reference signals match. The main motor driver PCB sends the constant speed state signal (MLOCK=0) to the DC controller circuit.

c. Detecting an Error (E010)

If the rotation of the main motor starts to have fluctuations for some reason, the MLOCK signal goes '1'. If the signal remains '1' for about 1 sec, the DC controller will find the condition to be a fault in the main motor, and will stop the main motor and, at the same time, indicate 'E010' in the display.

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E. Inputs to and Outputs from the DC Controller

1. Inputs to the DC Control (1/2)

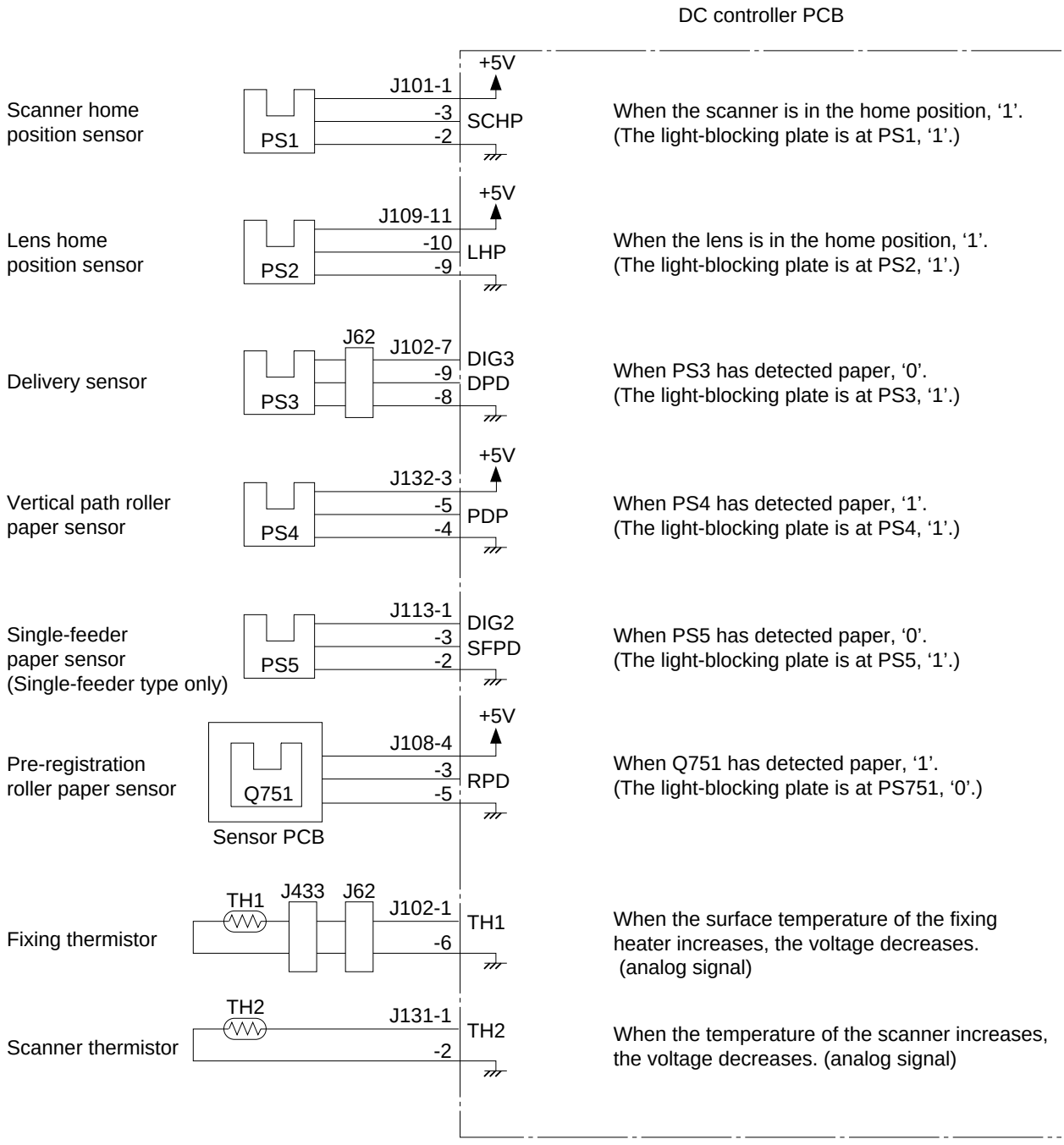

Figure 2-105

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2. Inputs to the DC Controller (2/2)

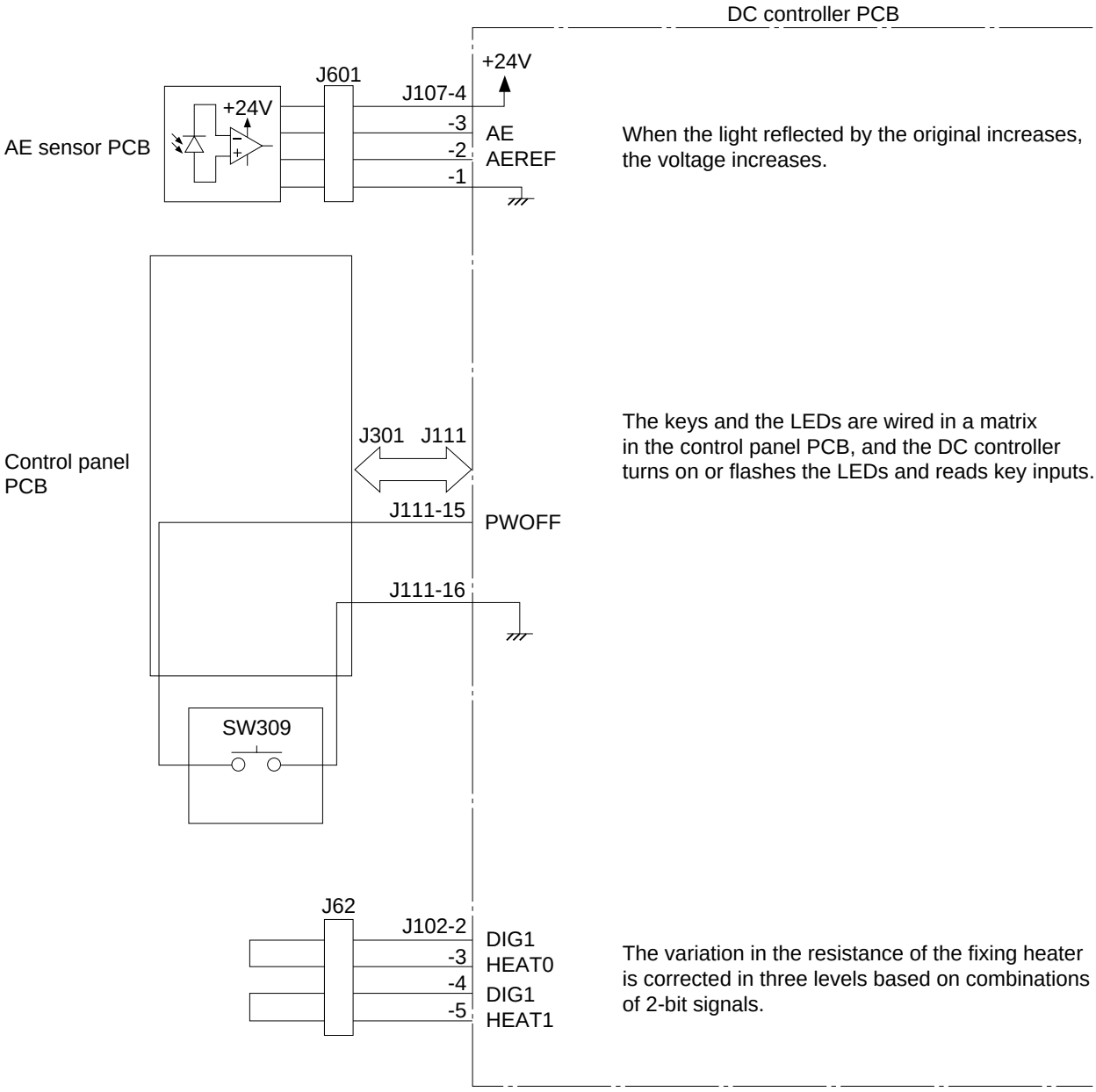

Figure 2-106

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3. Outputs from the DC Controller (1/2)

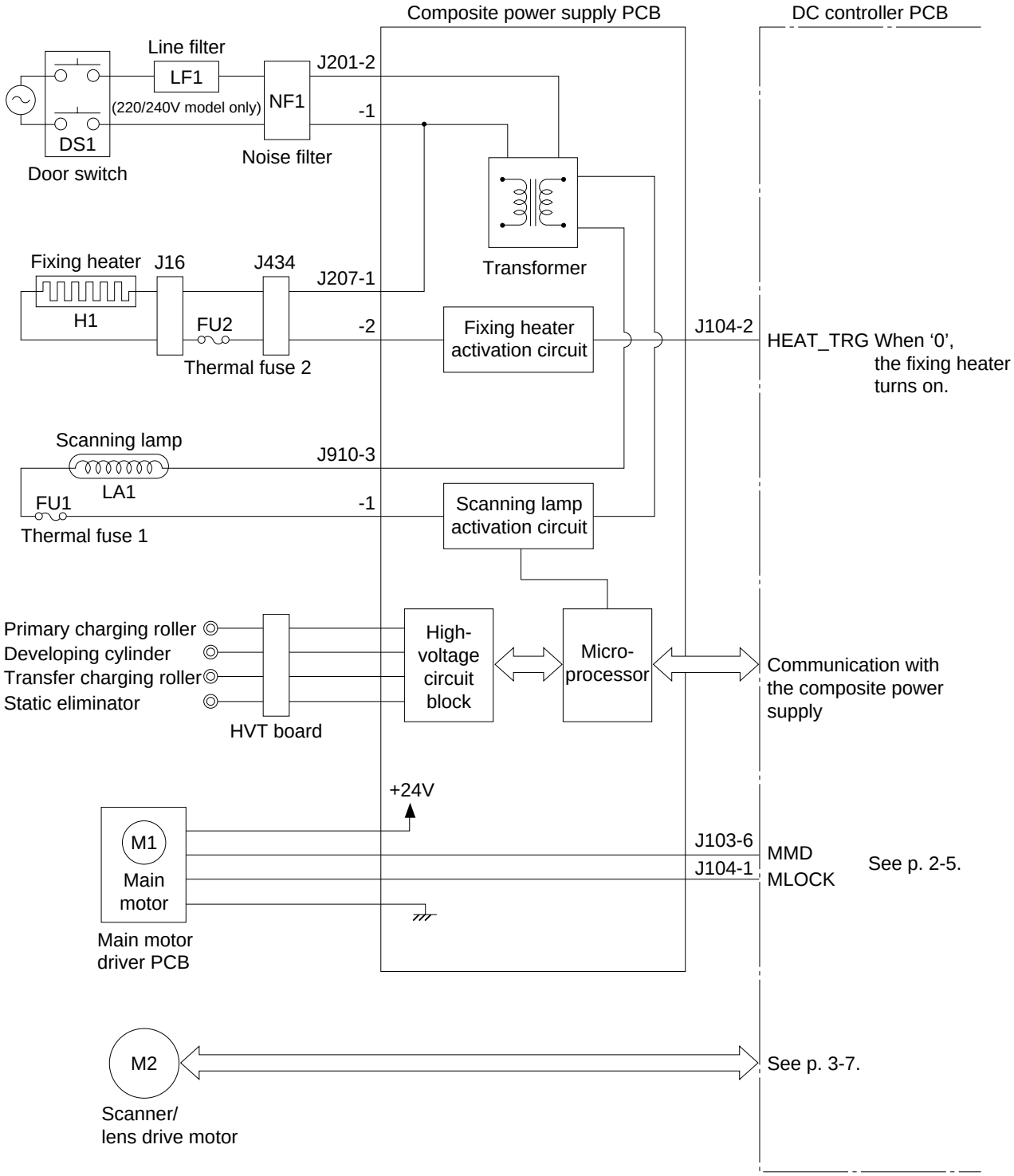

Figure 2-107

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4. Outputs from the DC Control PCB (2/2)

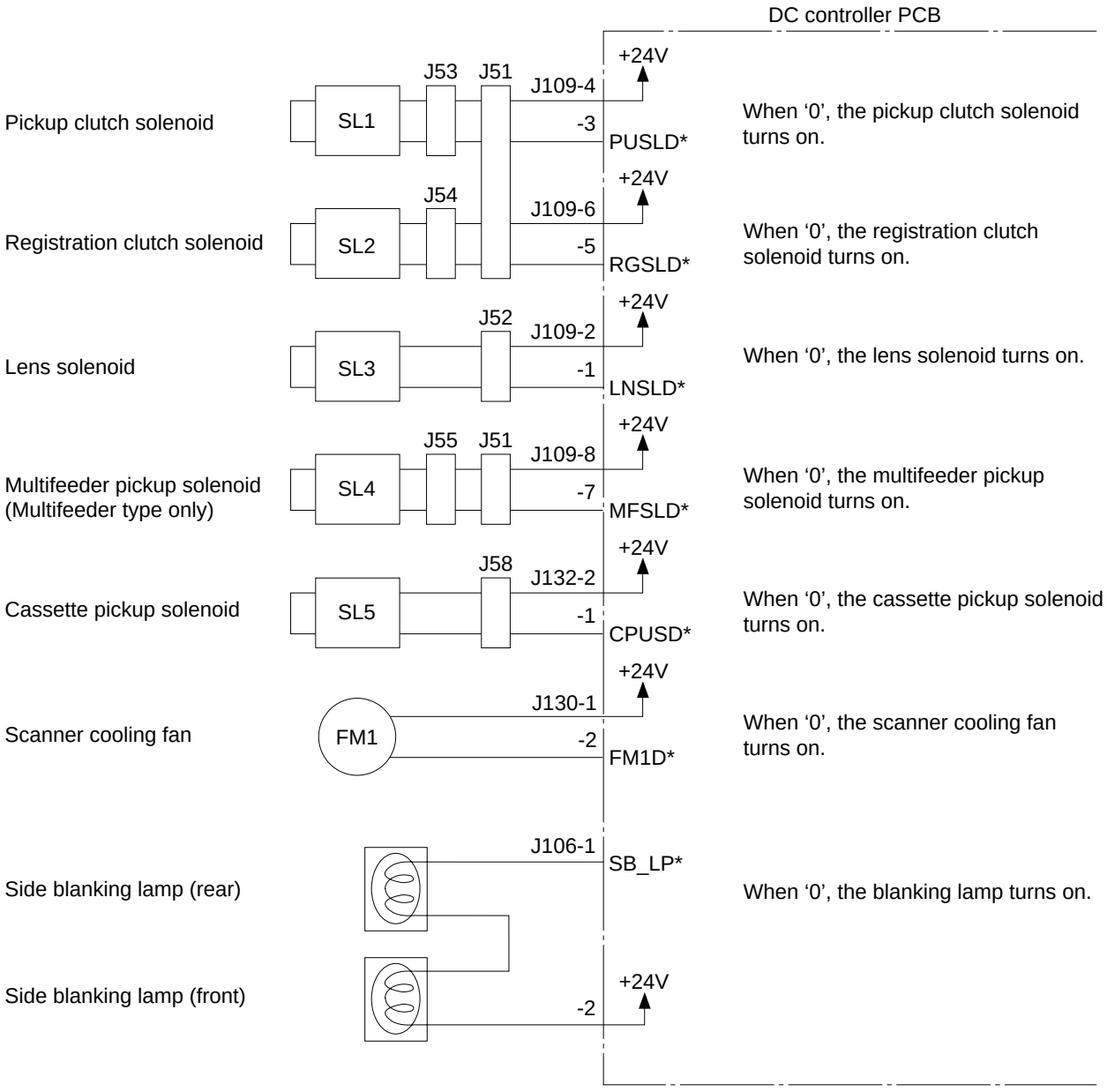

Figure 2-108

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5. Inputs to and Outputs from the ADF

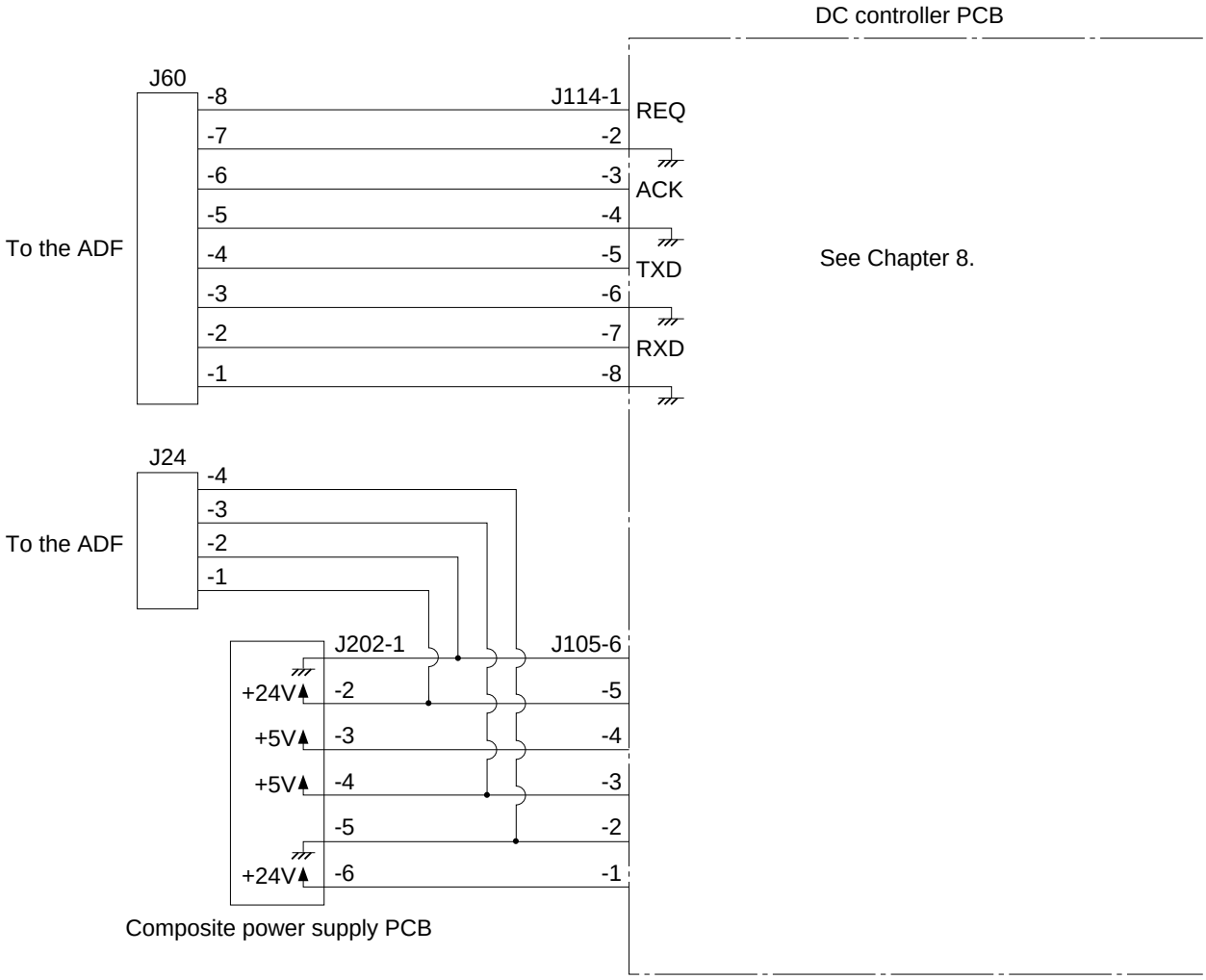

Figure 2-109

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CHAPTER 3

EXPOSURE SYSTEM

This chapter discusses the principles of operation used for the machine's lens drive unit and scanner drive unit. It also explains the timing at which these drive units are operated, and shows how they may be disassembled/assmbled and adjusted.

I. OPERATIONS 3-1
  A. Outline 3-1
  B. Varying the Reproduction Ratio 3-2
  C. Lens Drive System 3-3
  D. Scanner Drive System 3-4
II. EXPOSURE SYSTEM 3-9
  A. Controlling the Scanning Lamp 3-9
III. DISASSEMBLY/ASSEMBLY 3-12
  A. Scanner Drive Assembly 3-13
  B. Lens Drive Assembly 3-31
  C. Exposure System 3-37

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I. OPERATIONS

A. Outline

Table 3-101 shows the major functions of the exposure system.

Item	Description
Lamp	Halogen
Scanning	By moving the No. 1 mirror mount
Scanner position detection	By a sensor (scanner home position sensor; PS1)
Ratio variation	Main scanning direction:by varying the optical length Sub scanning direction:by varying the speed of the No. 1 mirror mount
Lens drive control	Scanner/lens drive motor (M2) Fixed focal point lens unit Mobile No. 4/5 mirror unit
Scanner drive control	Scanner/lens drive motor (M2) Scanner thermistor (TH2)
Protective function	By a fuse (blows in response to overheating of the scanning lamp to cut power to the lamp) • Thermal fuse (FU1; blows at 128°C)

Table 3-101

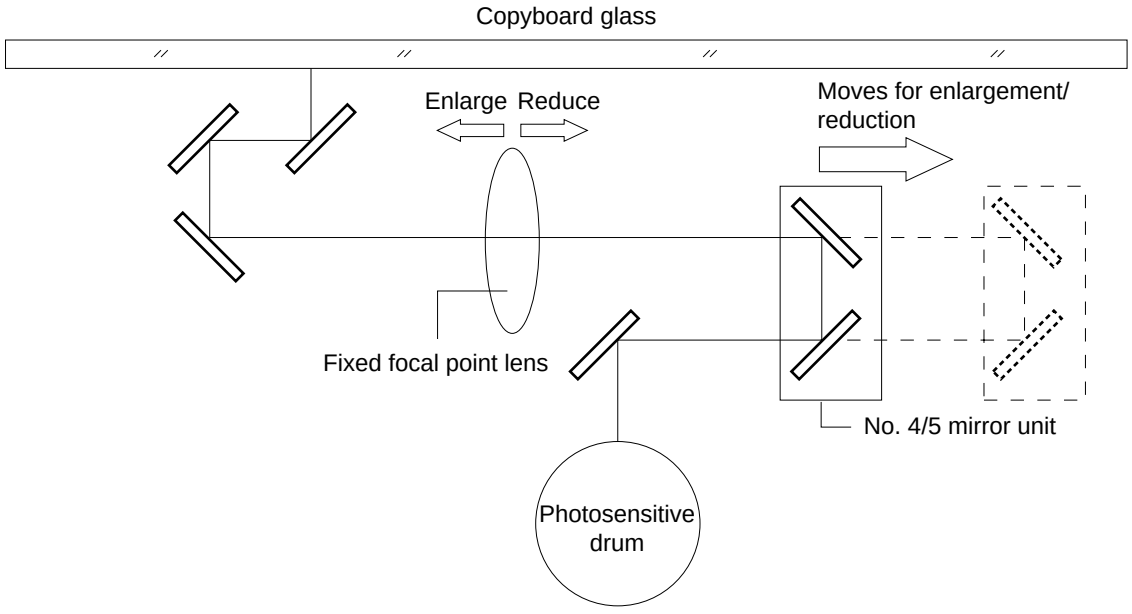

Figure 3-101

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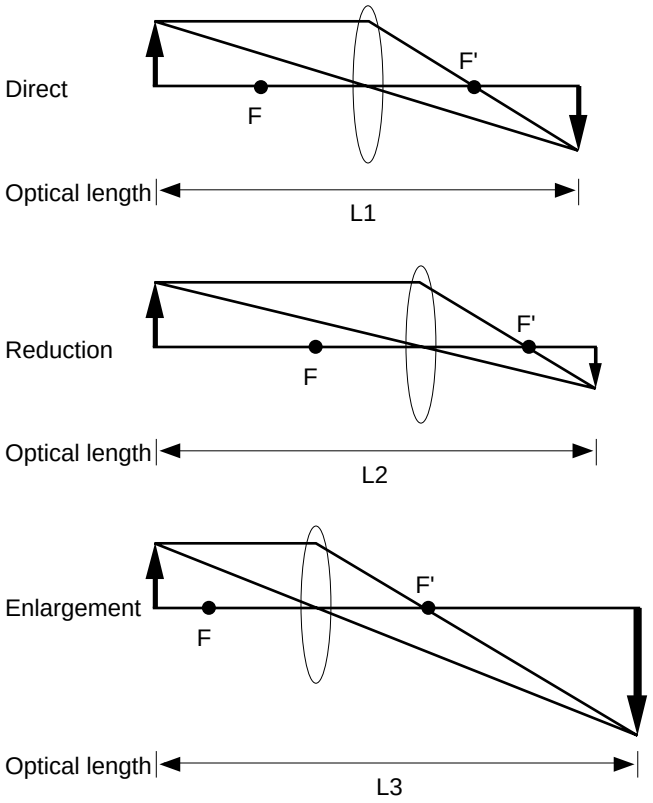
B. Varying the Reproduction Ratio

The reproduction ratio in the drum axial direction (main scanning direction) is varied by the lens drive system, and that in the drum peripheral direction (sub scanning direction) is changed by the scanner drive system.

In the lens drive system, the positions of the fixed focal point lens and the No. 4/5 mirror are changed to vary the reproduction ratio.

In the scanner system, the relative speed of the No. 1 mirror mount is made higher (for reduction) or lower (for enlargement) than the drum peripheral speed.



Optical length: L1 < L2, L1 < L3

Figure 3-102

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C. Lens Drive System

1. Outline

The lens drive system is driven by the scanner/lens drive motor (M2). When the lens solenoid (SL3) turns on, the switching gear is pushed in the direction of ⇨. In this condition, when the scanner/lens drive motor rotates in reverse direction (↷), the lens unit will move in the direction of reduction (➡) by the work of the gear and the lens cable.

At the same time, the No. 4/5 mirror unit operates according to the distance over which the lens unit is moved by the work of the gear and the cam, thereby varying the optical length.

At this time, the blanking lamp also moves in conjunction with the lens to blank out the appropriate front/rear widths to suit the selected reduction ratio.

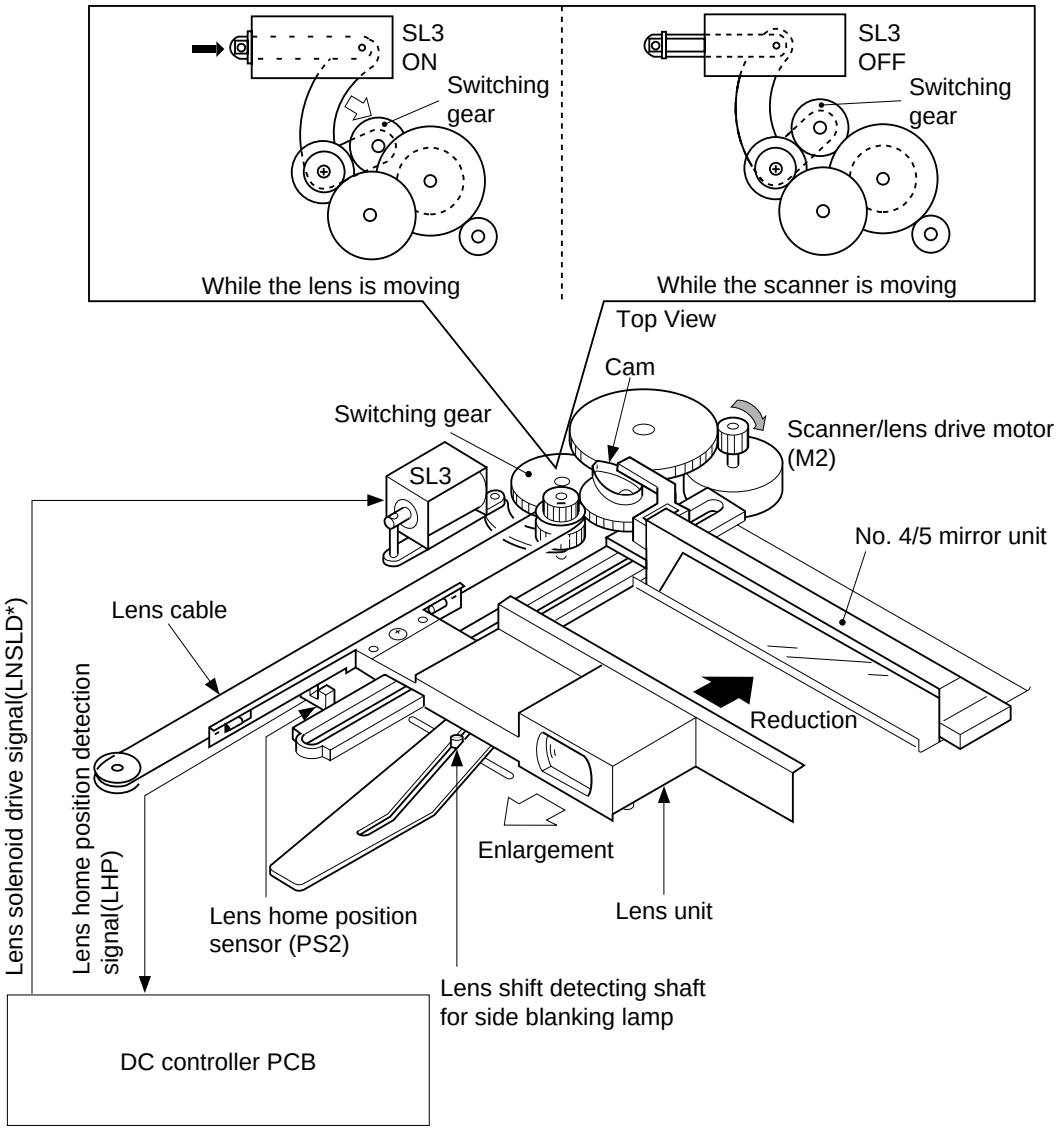

Figure 3-103

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D. Scanner Drive System

1. Outline

The scanner is driven by the scanner/lens drive motor (M2), whose direction of rotation changes to move the scanner forward or in reverse.

When moving the scanner forward, the speed of rotation of the motor varies according to the selected reproduction ratio on a continuous basis; when moving the scanner in reverse, on the other hand, its speed remains the same regardless of the selected reproduction ratio in normal copying (312mm/sec, about 3.3 as fast as when moving the scanner forward in Direct).

The distance over which the scanner is moved varies according to the length of copy paper and the selected reproduction ratio.

The scanner/lens drive motor dives the lens drive system as well as the scanner.

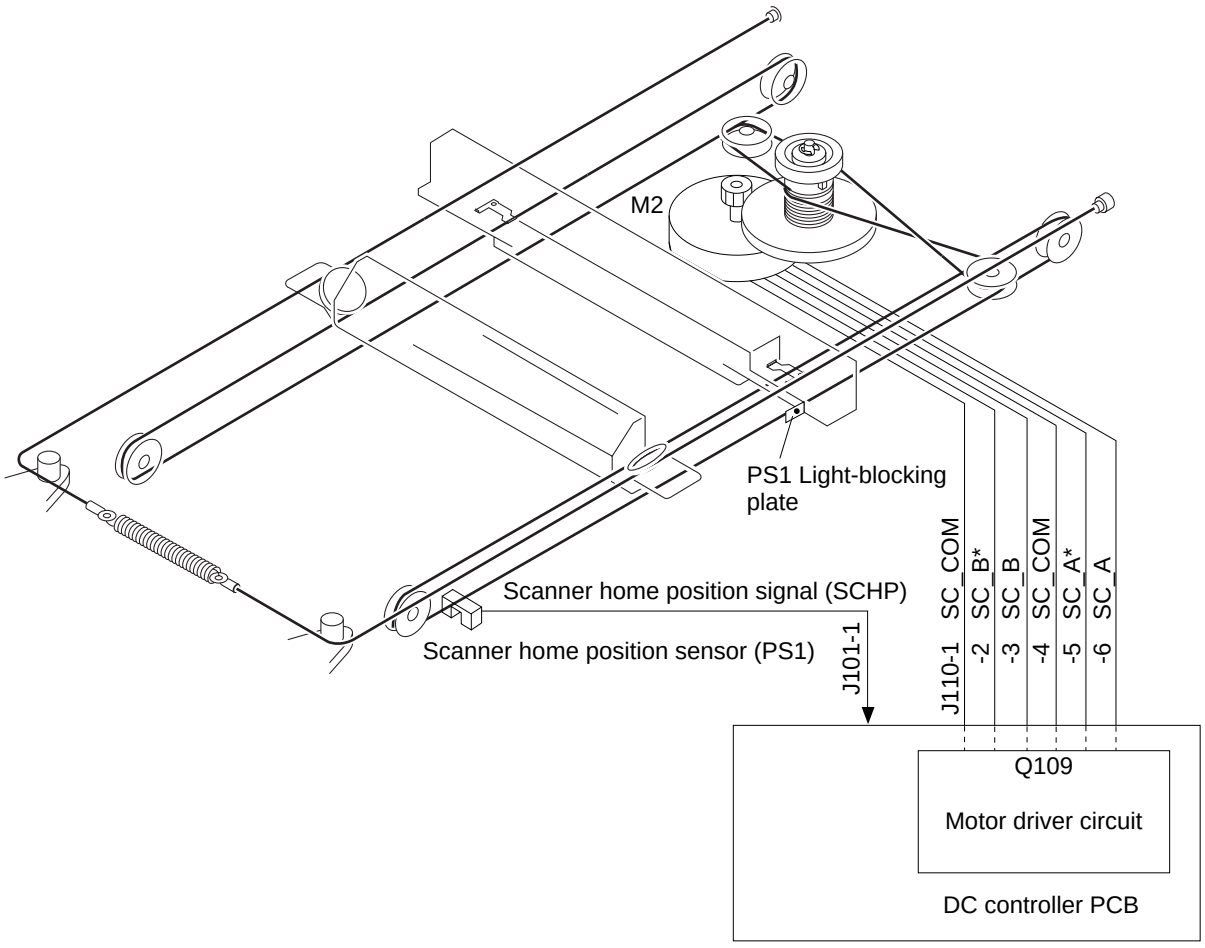

Figure 3-104

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2. Relationship between Scanner Sensor and Signal

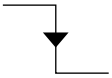
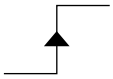
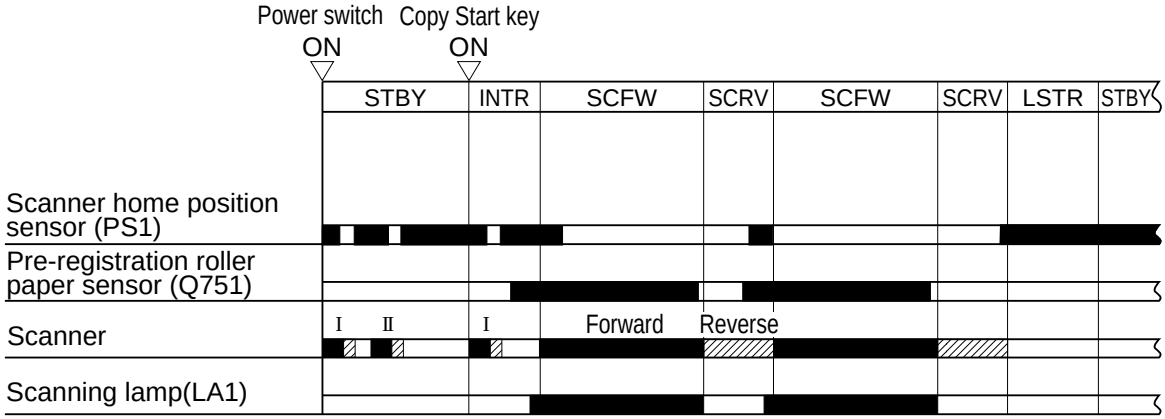
Scanner sensor	Signal	Scanner		Description
		Forward	Reverse	
PS1(scanner home position sensor)	SCHP			• Provides a means of reference for determining forward movement distance.
				• Stops the scanner moving in reverse in 0.1 sec.

Table 3-102

3. Basic Sequence of Operations (scanner)



I : Scanner home position detection
II : Lens home position detection

Figure 3-105

The microprocessor on the DC controller PCB controls the forward movement distance of the scanner with reference to the falling edge of the scanner home position signal. The forward movement distance of the scanner varies according to the length of copy paper and reproduction ratio. If the ratio is less than 130%, the scanner is moved forward as if for A4 (297 mm); if it is 130% or more, the scanner is moved forward as if for LTR (279 mm).

For descriptions on how length is detected, see p. 5-10.

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4. Controlling the Copying Speed

The machine uses a halogen lamp for scanning, and the heat of the lamp increases the temperature of the copyboard.

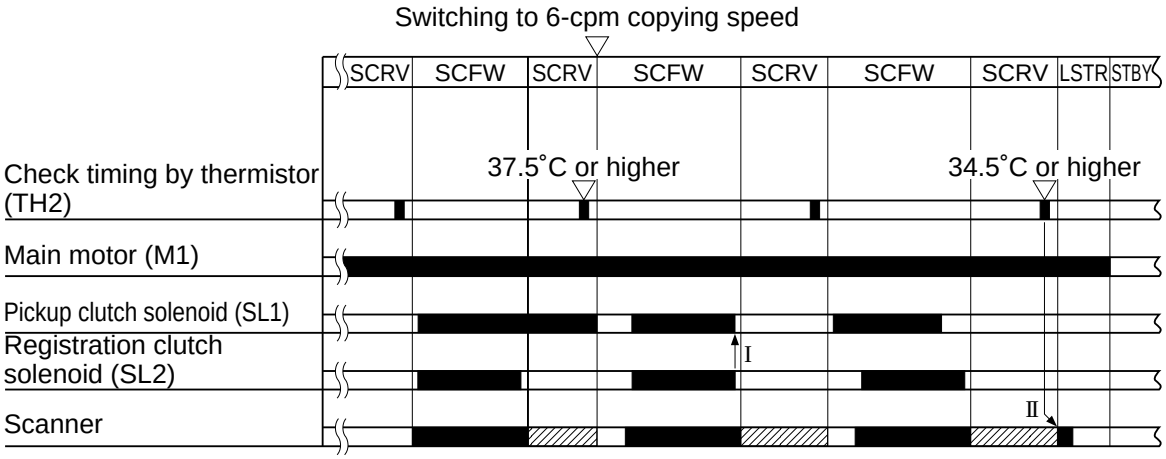
To prevent possible overheating of the copyboard glass, the temperature of the scanner is monitored by a thermistor (TH2); if its reading reaches 37.5°C or higher, the copying speed is reduced to 6 cpm.

If this mechanism turns on during continuous copying, it remains on until the end of the copying job.

At the end of copying, if the reading of the thermistor is 34.5°C or higher, the No. 1 mirror mount is moved forward 105 mm from the home position and stopped, thereby lowering the temperature of the copyboard fast.

Reference:

While the copying speed is controlled to 6 cpm, the speed of the reverse movement of the scanner is reduced to prevent overheating of the copyboard glass. (about 75 mm/sec)



I : When the pre-registration roller paper sensor (Q751) is off, the pickup clutch solenoid is turned off to prevent overheating of the pickup clutch solenoid (SL1).

II : By the time the Copy Start key is pressed or the power switch is turned off and then on again next time, the scanner is moved to and stopped at 105 mm forward from the home position.

Figure 3-106

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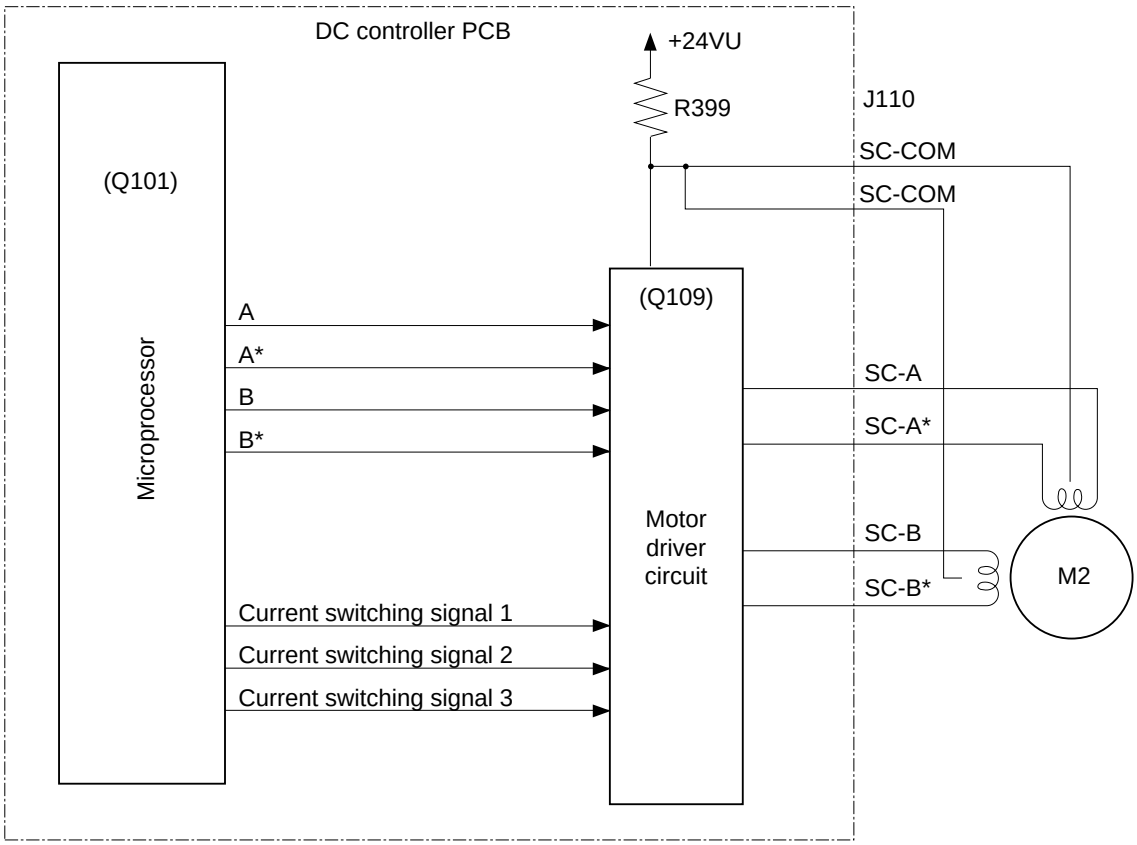
5. Controlling the Scanner/Lens Drive Motor

a. Outline

The scanner/lens drive motor (M2) is a 4-phase stepping motor. The timing at which the drive power (SC-COM) and pulses (SC-A, SCA*, SC-B, SC-B*) are generated is controlled to turn on/off the scanner/lens drive motor (M2) or to switch the direction of its rotation.



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b. Operations

The microprocessor (Q101) mounted on the DC controller PCB receives instructions from the control panel PCB copying mode settings (e.g., reproduction ratio). In response, it applies drive pulses to the scanner/lens drive motor (M2) through the motor driver circuit.

The scanner motor is a 4-phase stepping motor, and changes the direction and speed of its rotation according to the sequence and frequency of drive pulses (SC-A*through SC-B*).

The motor drive voltage is switched on and off by pulse signals (A through B*) generated by the microprocessor (Q101). Any of these pulse signals is generated when the motor is in operation, while no pulse signal is generated when the motor is at rest.

The current switching signals from 1 to 3 generated by the microprocessor (Q101) are used to control the current flowing to the motor so that it varies according to the state of the scanner and the lens.

	Starting the lens	Moving the lens	Reversing the scanner	Forwarding the scanner
Current switching signal 1	0	0	0	1
Current switching signal 2	0	0	1	1
Current switching signal 3	0	1	1	1

c. Detecting Overcurrent for the Scanner/Lens Drive Motor

If overcurrent flows to the scanner/lens drive motor for some reason, the fuse (R339) on the DC controller PCB will blow to cut the power to the motor.

Caution:

The fuse (R339) will not recover once it has blown.

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II. EXPOSURE SYSTEM

A. Controlling the Scanning Lamp

1. Outline

Figure 3-201 shows the circuit used to control the scanning lamp, and has the following functions:

- Turning on/off the scanning lamp.
- Controlling the intensity of the scanning lamp.
- Monitoring the state (on/off) of the scanning lamp.

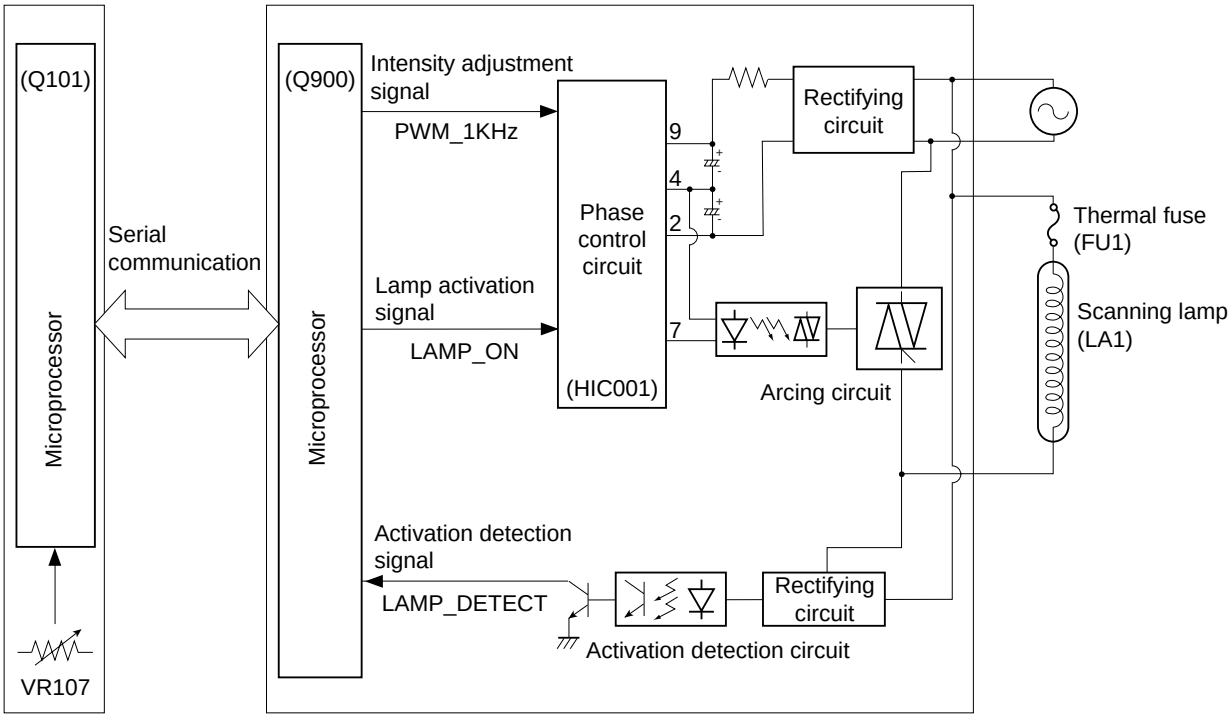

Figure 3-201

2. Operations

a. Turning On/Off the Scanning Lamp

The DC controller PCB and the composite power supply exchange signals in serial communication to control the scanning lamp. According to the scanner lamp active voltage signal, the microprocessor (Q900) on the composite power supply PCB controls the intensity adjustment signal (PWM_1KHz) and the lamp activation signal (LAMP_ON) to turn on/off the scanning lamp (LA1).

When LAMP_ON is '0',

↳The phase control circuit turns on.

↳The arcing circuit turns on.

↳The scanning lamp turns on.

When LAMP_ON is '1',

↳The phase control circuit turns off.

↳The arcing circuit turns off.

↳The scanning lamp turns off.

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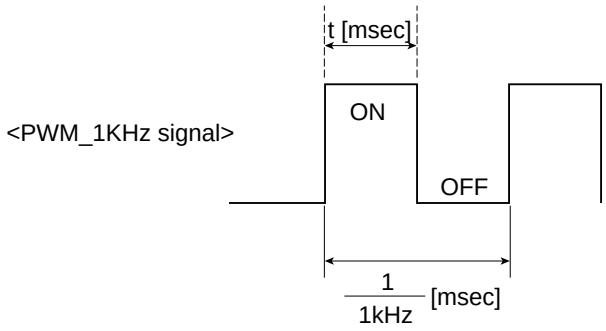
b. Controlling the Intensity of the Scanning Lamp

The intensity of the lamp is controlled by the scanning lamp active voltage signal sent by the DC controller PCB in serial.

The microprocessor (Q900) on the composite power supply PCB sends the intensity adjustment signal (PWM_1KHz) in response to the scanning lamp active voltage signal. In turn, the phase control circuit (HIC 001) controls the voltage supplied to the scanning lamp.

The PWM_1KHz signal varies according to the setting of VR107 mounted on the DC controller PCB between 10% and 90% in terms of pulse duty ratio or between 50.5 and 80 V for the 120 V model (between 85.7 and 145.8 V for the 220/240 V model) in terms of actual voltage by way of phase control.

However, the intensity remains a specific value for AE exposure so that it is 56 V for the 120 V model (108.5 V for the 220/240 V model) in terms of actual voltage.



$$\text{Pulse duty} = t / \frac{1}{1k} \times 100\ [\%]$$

Figure 3-202

c. Monitoring the Activation of the Scanning Lamp

The activation detection signal (LAMP_DETECT) is sent to the microprocessor (Q900) on the composite power supply PCB as long as the scanning lamp remains on.

The composite power supply PCB sends the lamp activation signal to the DC controller PCB in serial by way of monitoring the activation of the scanning lamp (LA1).

Related Error Code

E220
• The lamp activation detection signal is not detected for 1 sec or more although the scanning lamp activation signal has been sent. • The lamp activation detection signal has been detected for 1 sec or more although the scanning lamp activation signal is not sent.

If an error has been detected, the power switch will be turned off after indicating an error code for 2 sec.

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III. DISASSEMBLY/ASSEMBLY

As needed, disassemble/assemble the machine with the following in mind:

1. ⚠ Before starting the work, turn off the power switch and disconnect the power plug for safety.
2. Unless otherwise instructed, assemble the parts by reversing the steps used to disassemble it.
3. Identify the screws by type (length, diameter) and location.
4. Use the washers where necessary. (The screws used to mount the grounding wire and Varistors come with a washer to ensure electrical continuity.)
5. As necessary, cut the harness band.
6. As a rule, do not operate the machine with any of its part removed.
7. A few of the screws used are special screws (with wider thread intervals). Do not use any screws indiscriminately.

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A. Scanner Drive Assembly

1. Removing the Scanner/Lens Drive Motor

1) Remove the front lower cover.
(See Chapter 7.Ⅲ.A.2.“Removing the Front Lower Cover.”)
2) Remove the copyboard glass.
(See Chapter 7.Ⅲ.C.1.“Removing the Copyboard Glass.”)
3) Remove the four screws [1], and detach the lens cover [2].

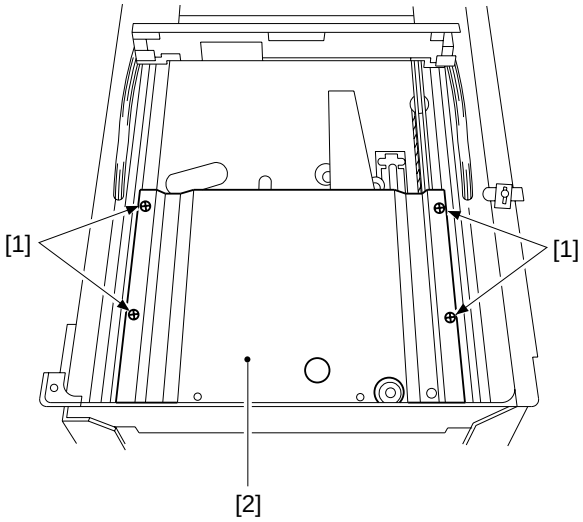

Figure 3-301

4) Disconnect the connector (J110) [3] from the DC controller PCB.

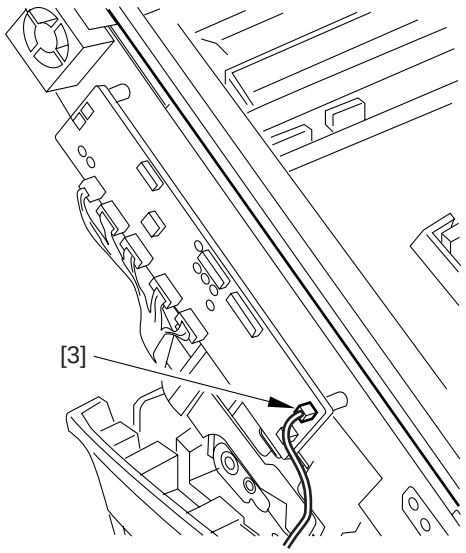

Figure 3-302

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5) Open the machine's top unit farther, and hold it in position using the handle (about 30 mm in diameter) of a screwdriver.

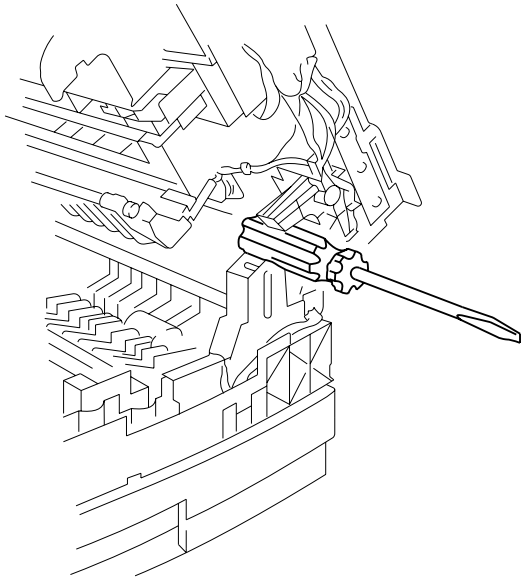

Figure 3-303

6) Remove the machine's two fixing screws [4] from the scanner/lens drive motor [5].

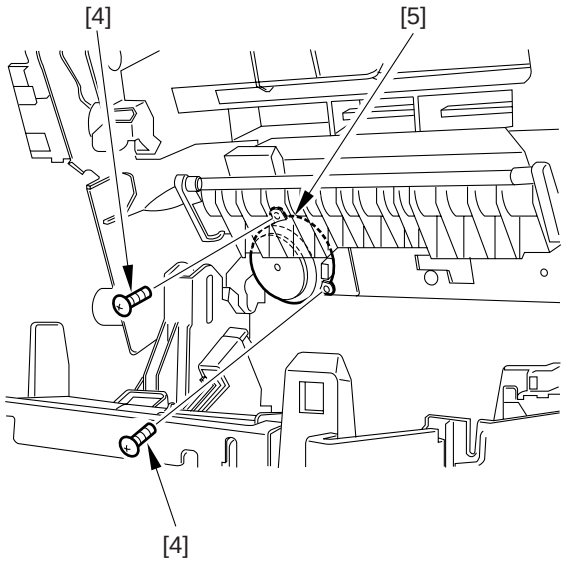

Figure 3-304

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7) Free the top unit (by removing the screw-driver), and close the top unit.
8) Remove the E-ring [6]; then, lift the cable drive pulley [7] slightly, and detach the scanner/lens drive motor [5].

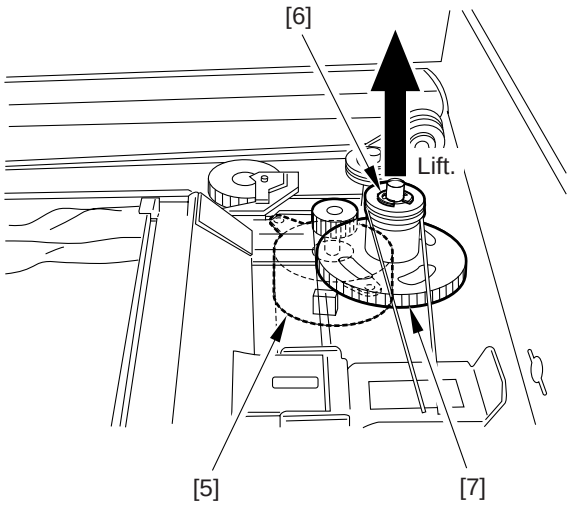

Figure 3-305

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2. Outline of the Scanner Drive Cable

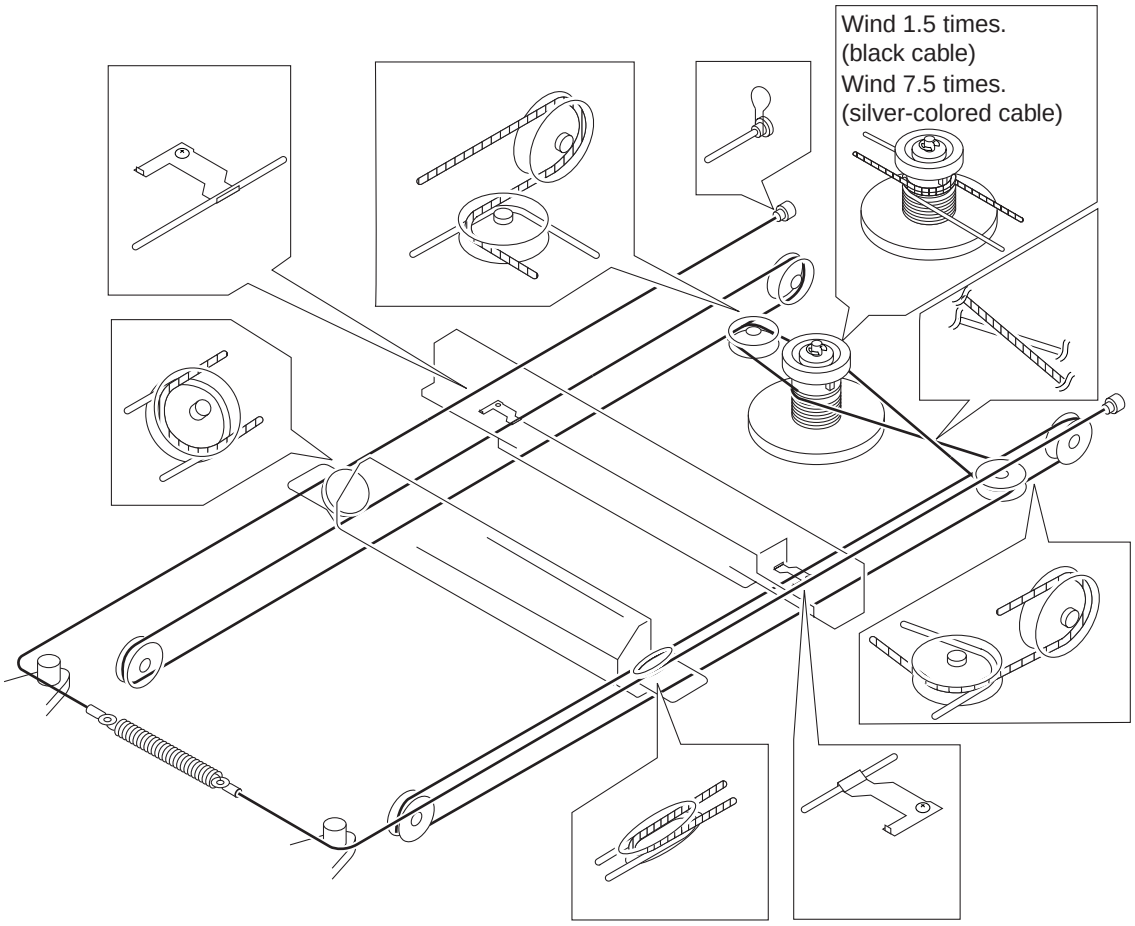

Figure 3-306

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3. Routing the Scanner Drive Cable

a. Before Starting the Work

Prepare the following:

- Mirror positioning tool
- Cable clip
- Adhesive tape

1) Set the mirror positioning tool as shown.

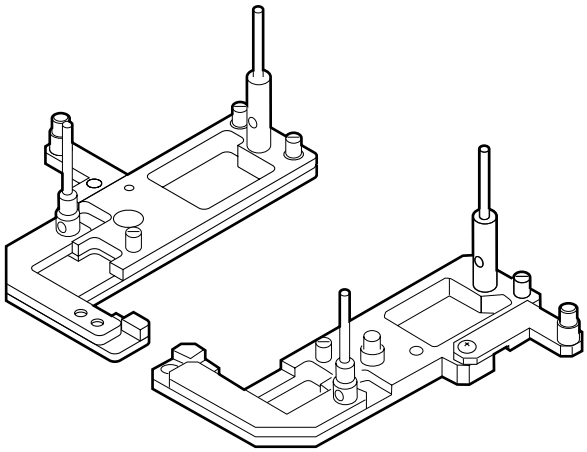

Figure 3-307

2) Prepare about five strips of adhesive tape (each one about 20 × 50 mm).
3) Remove the copyboard glass. (See Chapter 7.Ⅲ.C.1.“Removing the Copyboard Glass.”)
4) Disconnect the connectors (J101, J131) [1] from the DC controller PCB.

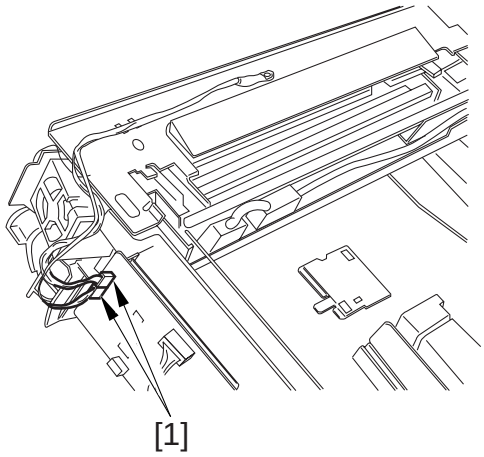

Figure 3-308

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5) If the machine is equipped with an ADF, free the hook [2], and disconnect the two relay connectors [3] from the left upper stay [4].

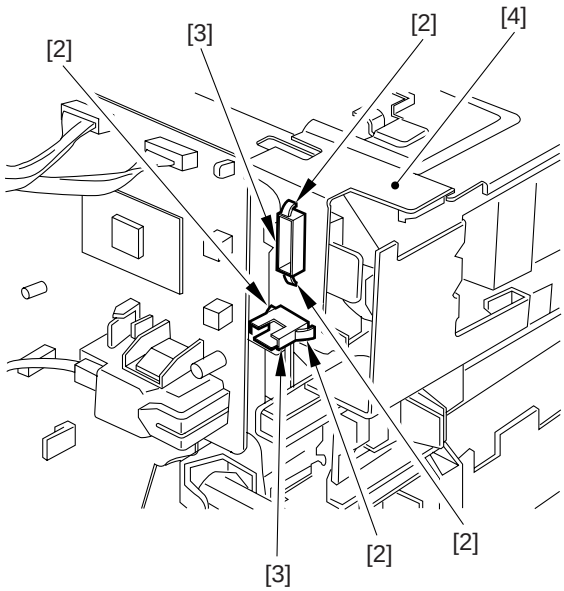

Figure 3-309

6) Remove the three screws [5], and detach the left upper stay [4].

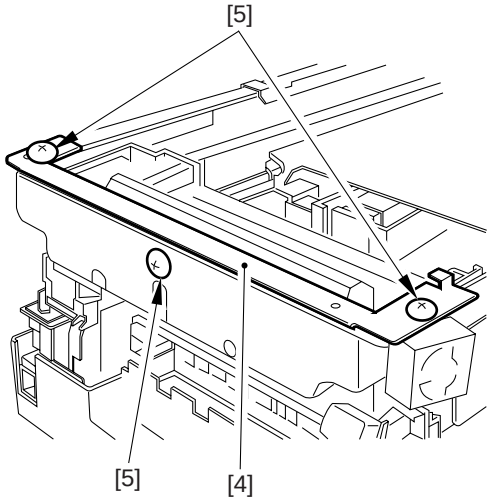

Figure 3-310

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7) Remove the four screws [6], and detach the lens cover [7].

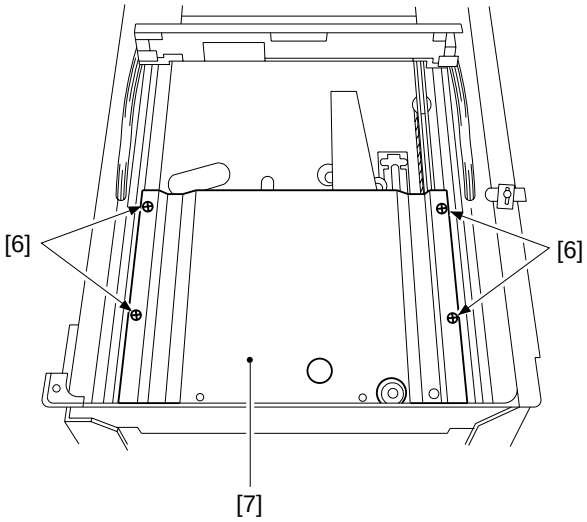

Figure 3-311

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b. Routing the Reversing Cable

1) Wind the reversing cables (silver-colored) [2] on the cable drive pulley [1] 7.5 times with the longer end on top; then, secure it in position with a cable clip [3].

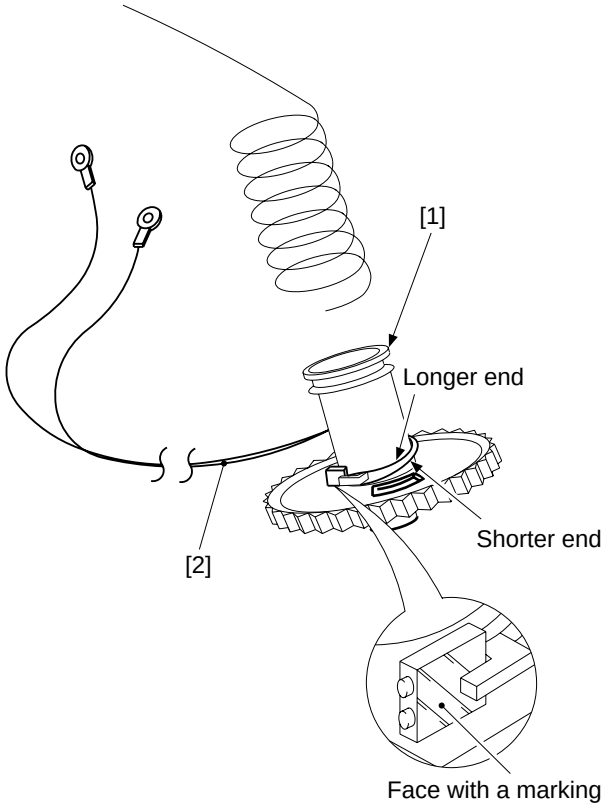

Figure 3-312

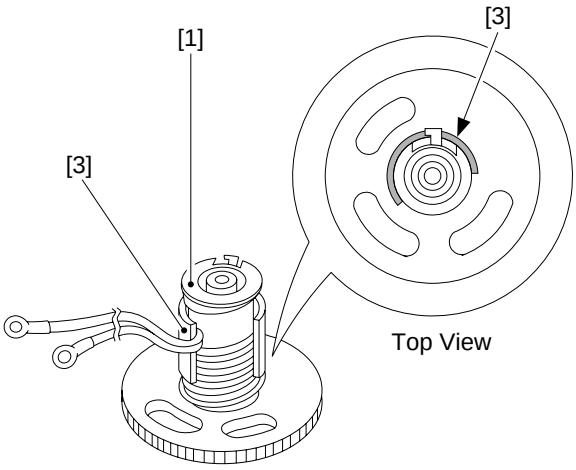

Figure 3-313

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2) Put the cable drive pulley [1] into the shaft [4], and secure it in position with an E-ring [5].
When putting the cable drive pulley into the shaft, be sure that the hook is at the front.

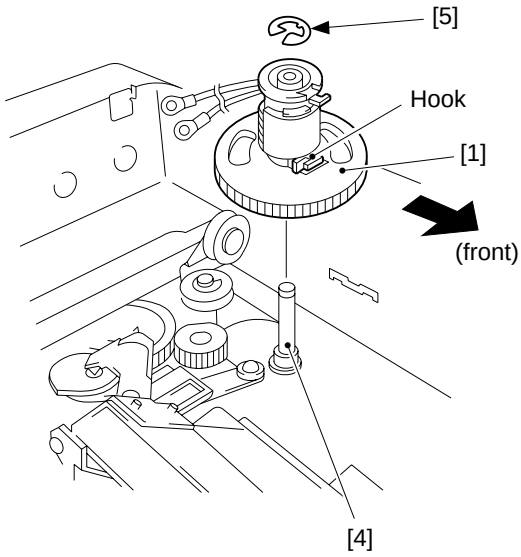

Figure 3-314

3) Hook the shorter end [6] on the pulley [7].

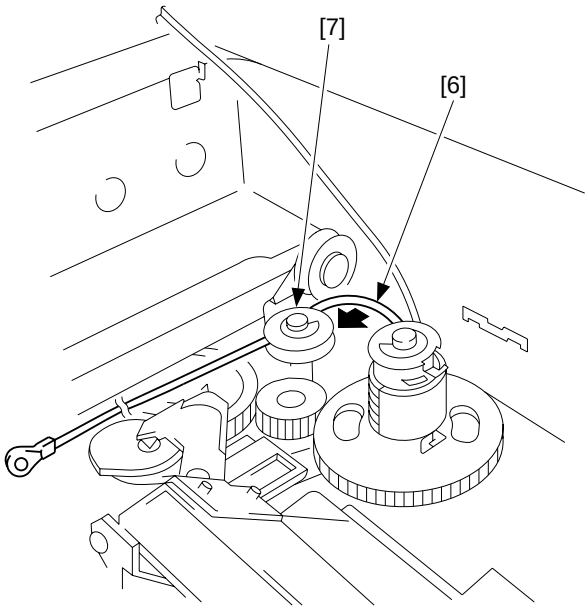

Figure 3-315

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4) Lead the shorter end [6] under the No. 1 mirror mount [8] and the No. 2/3 mirror mount [9]; then, hook it on the left rear pulley [10] and the pulley [11] of the No. 2/3 mirror mount.

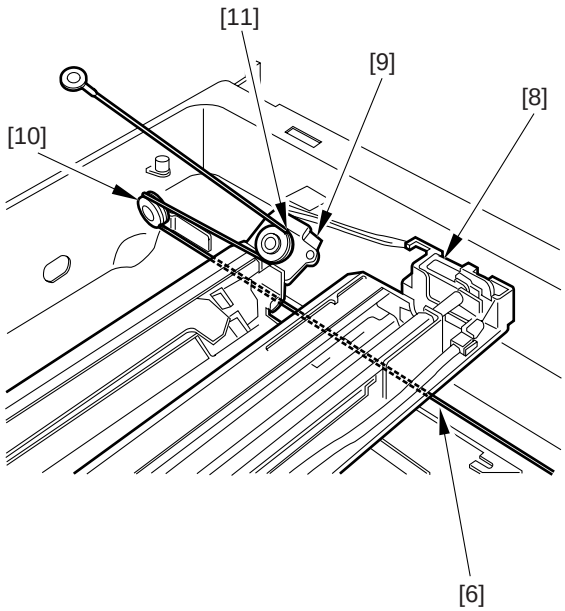

Figure 3-316

5) After fitting the shorter end [6] on the cable hook [12], secure its end with adhesive tape [13].
Be sure that the secured end of the cable is found where the hole in the left side plate and the tip of the cable matches.

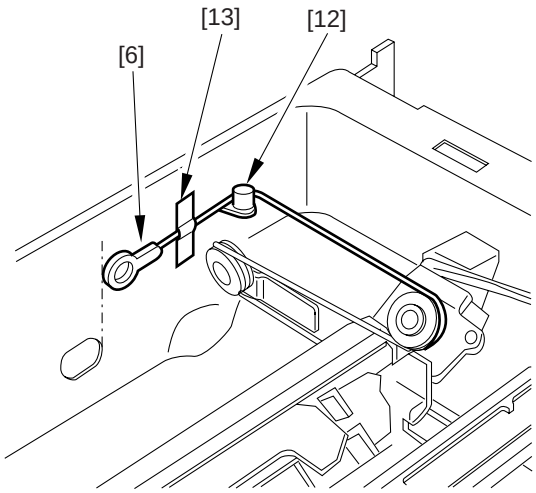

Figure 3-317

6) Lead the longer end [14] along the cable drive pulley, and hook it on the pulley [15] on the right front side.

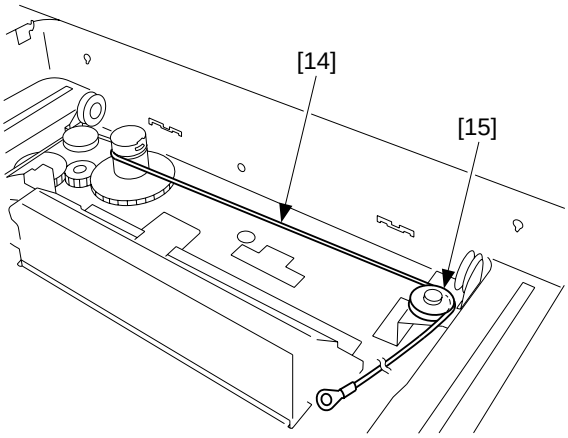

Figure 3-318

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7) Lead the longer end [14] under the No. 1 mirror mount [8] and the No. 2/3 mirror mount [9]; then, hook it on the pulley [16] on the left front side and the pulley [17] of the No. 2/3 mirror mount.

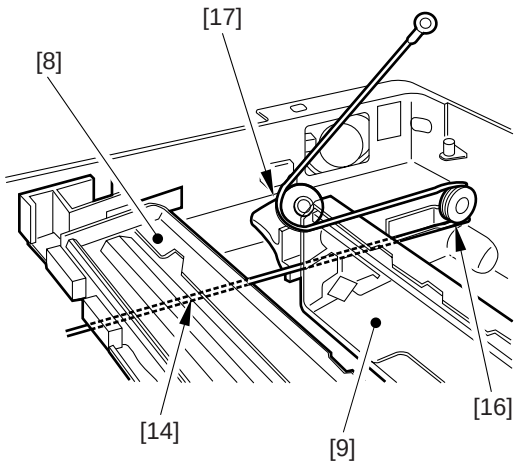

Figure 3-319

8) Hook the longer end [14] on the cable hook [18]; then, secure its end to the left side with adhesive tape [19].
Be sure that the secured end of the cable is found where the hole in the left side plate and the tip of the cable matches.

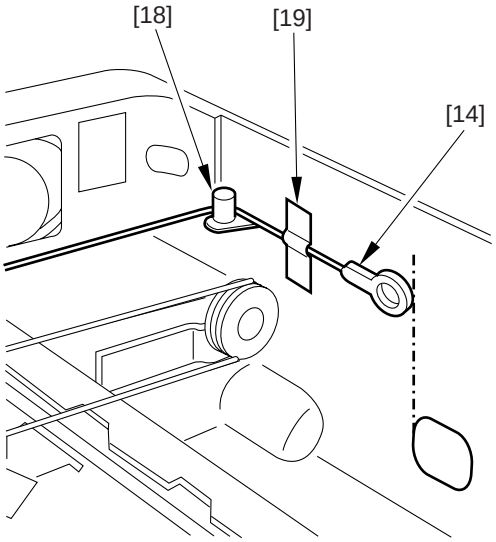

Figure 3-320

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c. Routing the Forwarding Cable

1) Fit the longer end forwarding cable (black) [2] on the top hook of the cable drive pulley [1], and wind it 1.5 times. Then, secure the shorter end [3] as shown with adhesive tape [4].

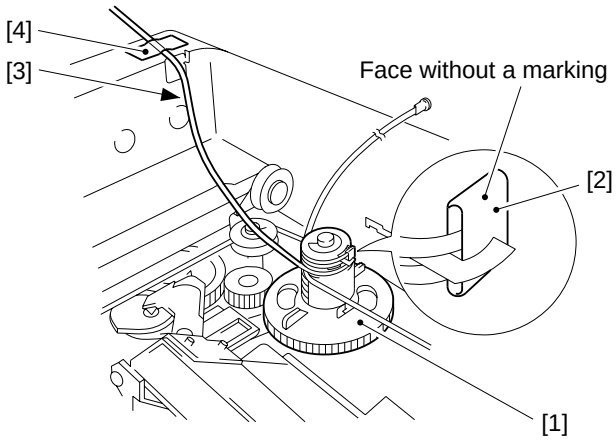

Figure 3-321

2) Lead the longer end [5] along the cable drive pulley [1] as shown, and hook it on the pulley [6] on the right front side.

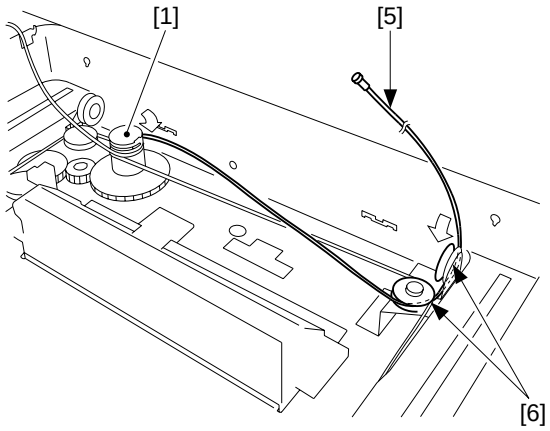

Figure 3-322

3) Lead the longer end [5] under the No. 1 mirror mount [7]; then, hook it on the pulley [8] of the No. 2/3 mirror mount, and lead it between the No. 1 mirror mount [7] and the scanning lamp [9].

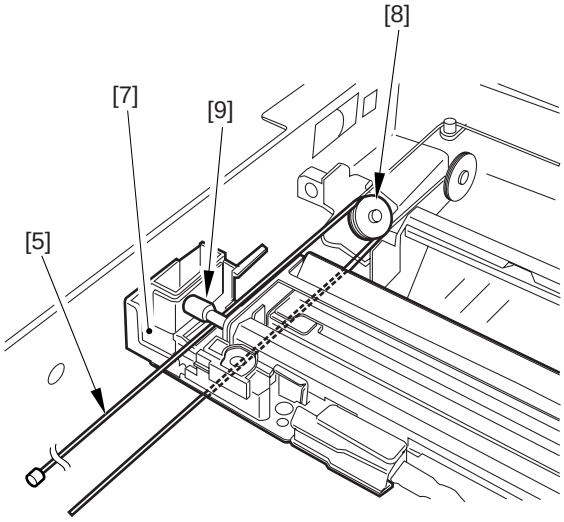

Figure 3-323

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4) Hook the end of the longer end [5] on the hole [10] on the right side.

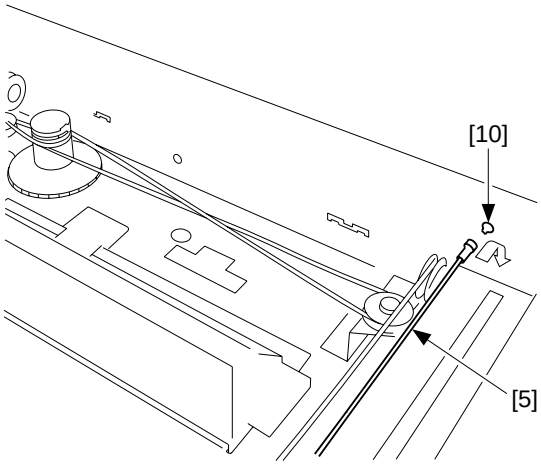

Figure 3-324

5) Free the shorter end [3], and hook it on the pulley [11] on the right rear side.

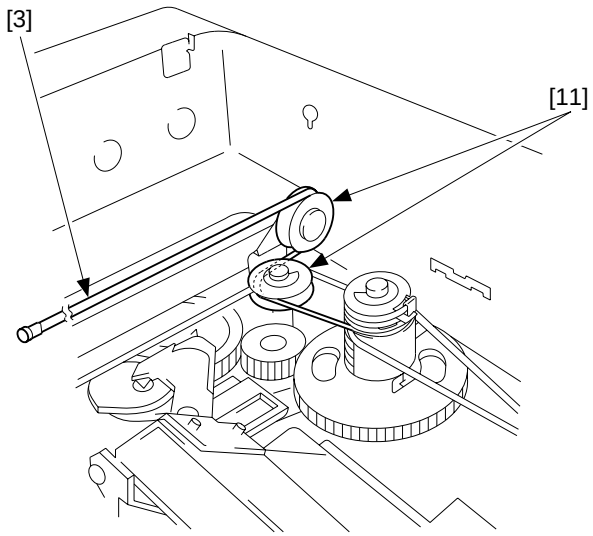

Figure 3-325

6) Lead the shorter end [3] under the No. 1 mirror mount [7], and hook it on the pulley [12] of the No. 2/3 mirror mount as shown; then, lead it between the No. 1 mirror mount [7] and the scanning lamp [9].

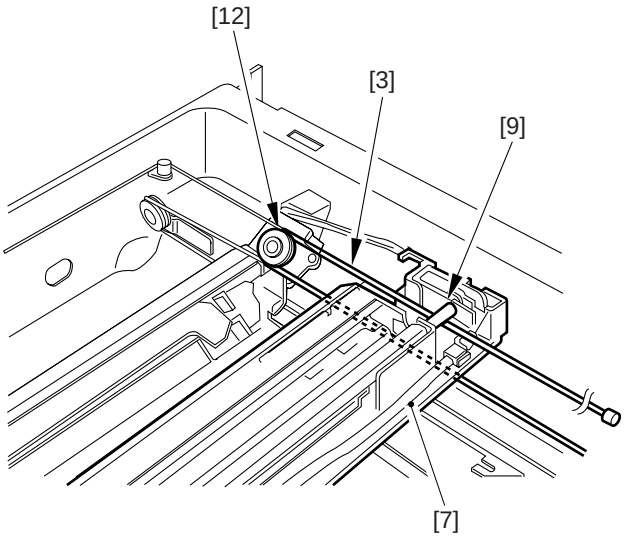

Figure 3-326

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7) Hook the end of the shorter end [3] on the hole [13] on the right side.

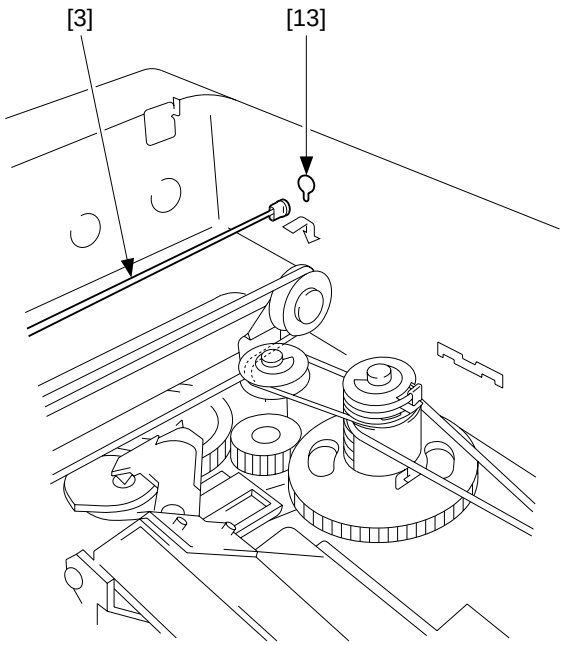

Figure 3-327

8) Free the shorter end [3] and the longer end [5] (reversing cable), and connect both with a spring [14]; then, fit the stopper [15].

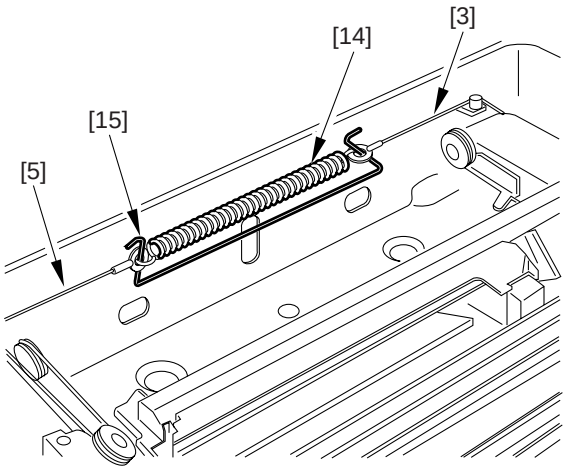

Figure 3-328

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9) Detach the pulley clip [16] from the cable drive pulley [1].

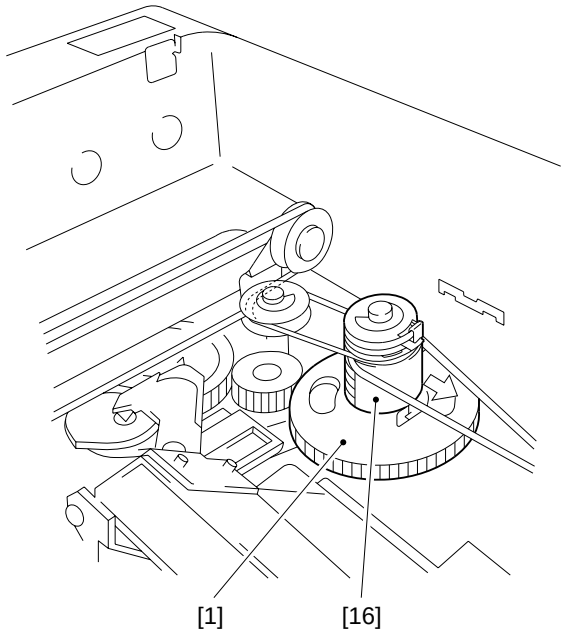

Figure 3-329

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d. Positioning the No. 1 Mirror Mount

1) Fix the rear and the front of the No. 1 mirror mount [1] temporarily to the metal fixing [2] of the forwarding cable.

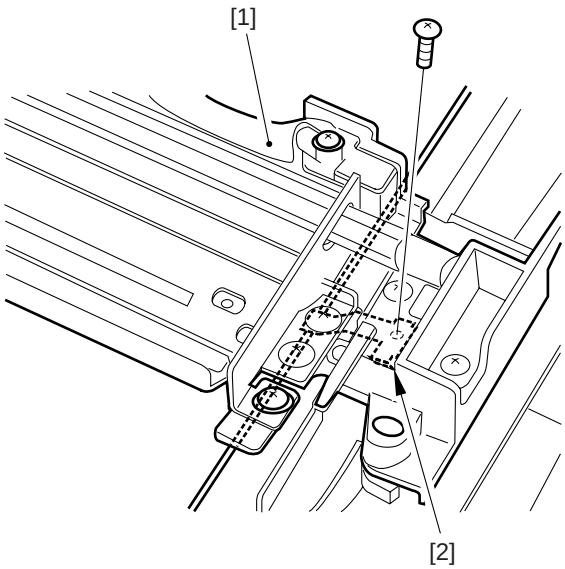

Figure 3-330 (rear)

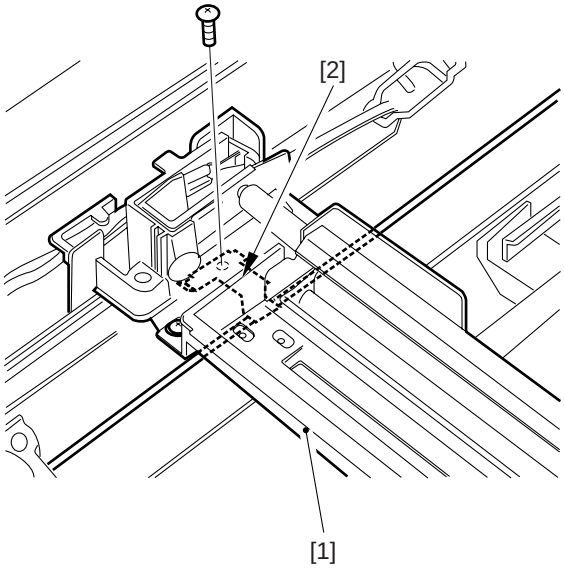

Figure 3-331 (front)

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2) Turn the cable drive pulley [4] so that the three shafts [3] of the mirror positioning tool for rear and front is as shown.

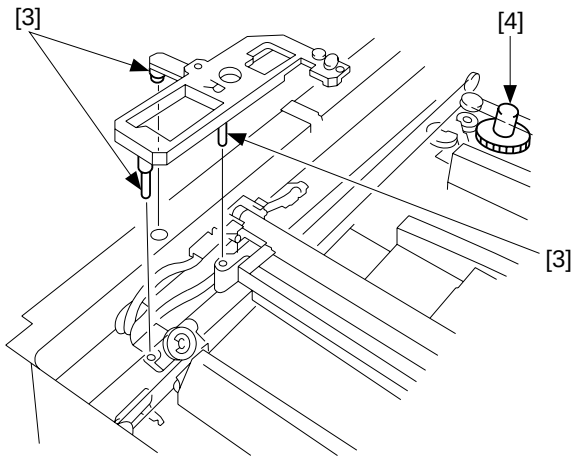

Figure 3-332 (rear)

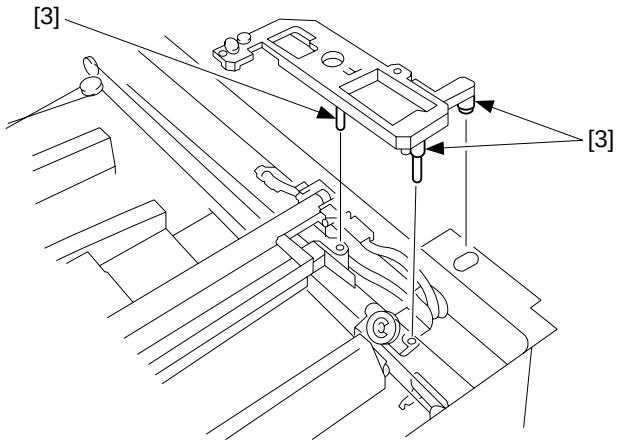

Figure 3-333 (front)

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3) While keeping the condition of step 2), tighten the positioning screw on the rear and front of the No. 1 mirror mount [1].

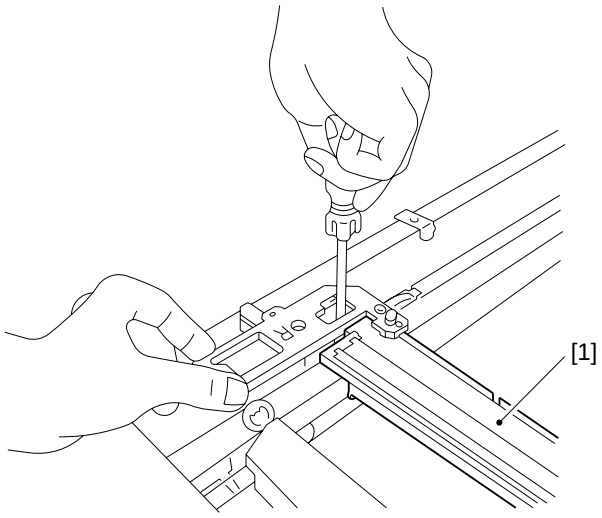

Figure 3-334 (rear)

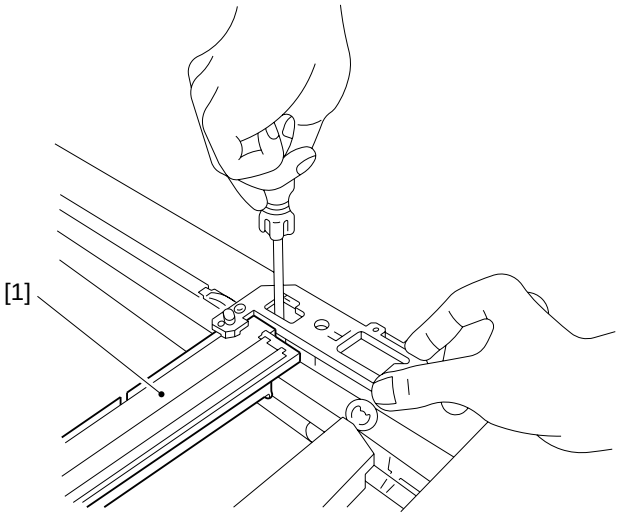

Figure 3-335 (front)

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B. Lens Drive Assembly

1. Removing the Lens Cable

1) Turn on the power; when the lens has moved to the Direct position, disconnect the power plug.
2) Remove the copyboard glass.
(See Chapter 7.Ⅲ.C.1.“Removing the Copyboard Glass.”)
3) Remove the main drive assembly.
(See Chapter 7.Ⅲ.D.2.“Removing the Main Drive Assembly.”)
4) Remove the four screws [1], and detach the lens cover [2].

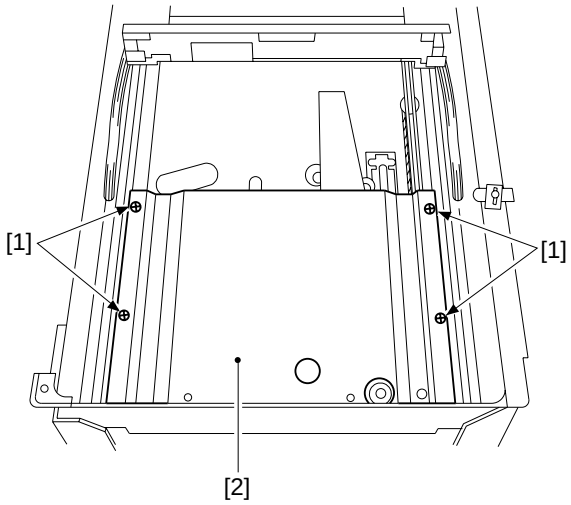

Figure 3-336

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5) Mark the position of the lens cable fixing plate [3] and the lens mount [4] with a scriber.

Caution:
When routing the lens cable, be sure to refer to the marking made with a scriber.

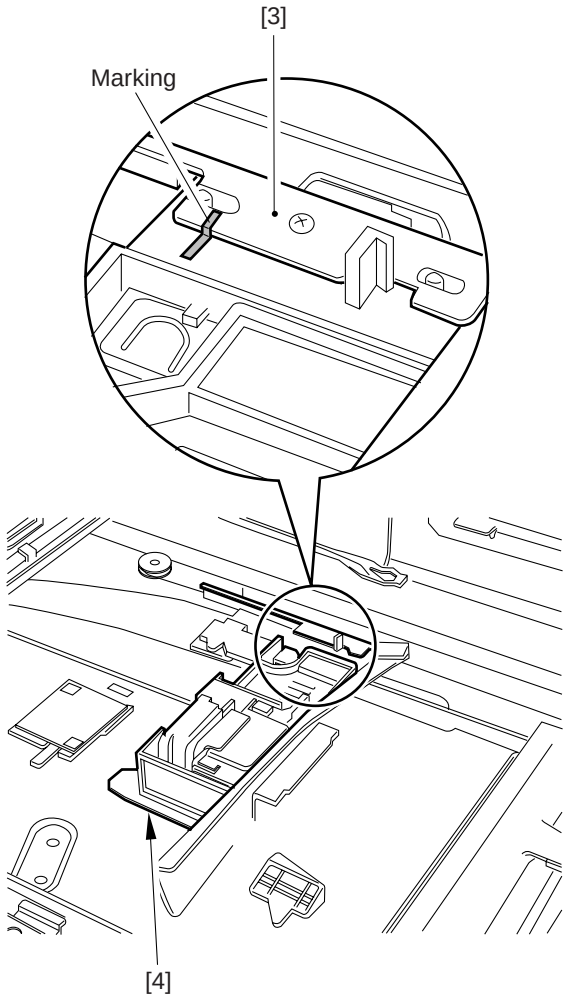

Figure 3-337

6) Disengage the lever [5] of the No. 4/5 mirror mount and the gear [6].

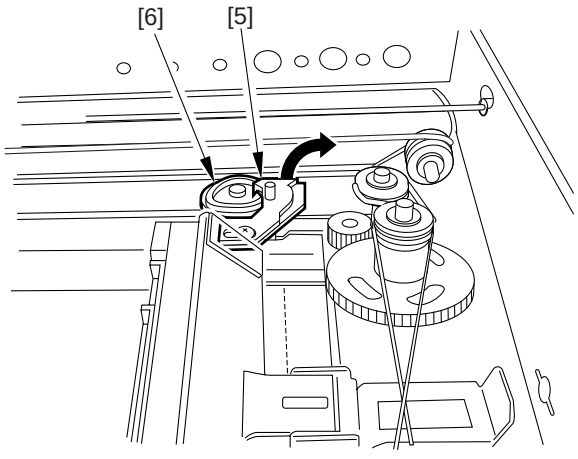

Figure 3-338

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7) Remove the screw [7], and detach the cam gear [6] and the cable retainer [8].

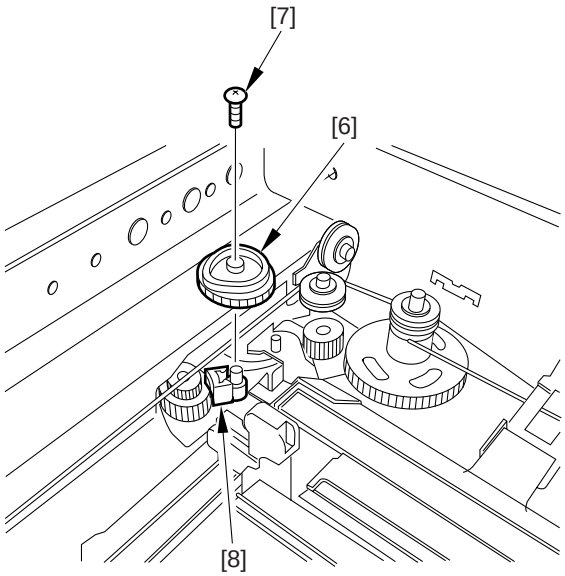

Figure 3-339

8) Holding the middle of the No. 1 mirror mount [9], move it to the center of the machine.

Caution:
Do not hold the reflecting plate.

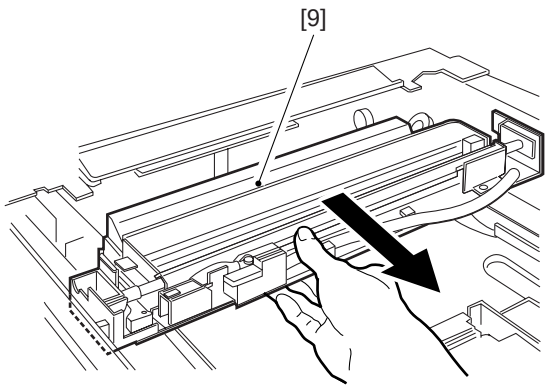

Figure 3-340

9) Remove the spring [10].

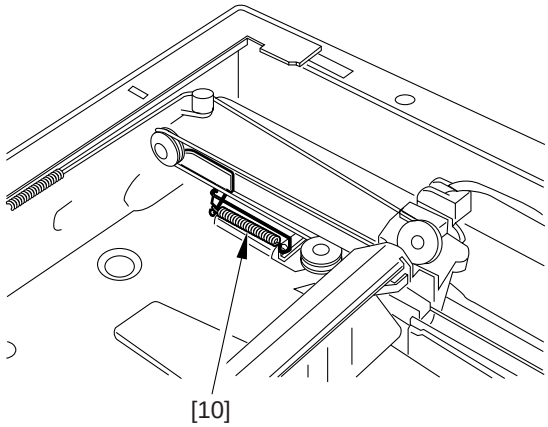

Figure 3-341

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10) Remove the screw [11], and detach the lens cable fixing plate [12].

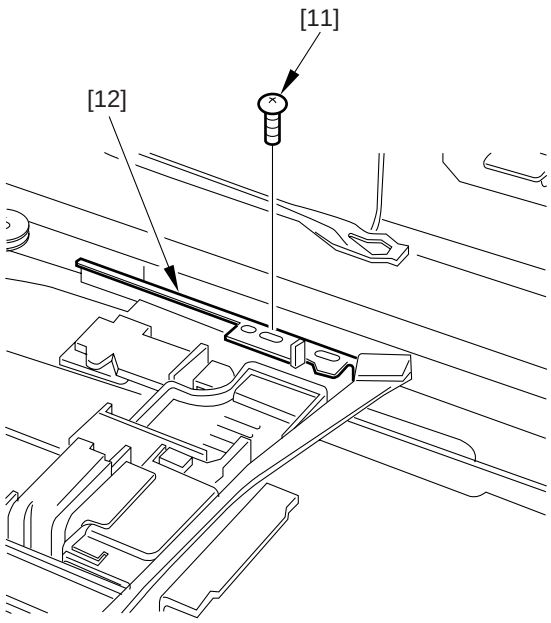

Figure 3-342

11) Free the lens cable [13] from the lens cable fixing plate [12]; then, detach the lens cable from the machine.

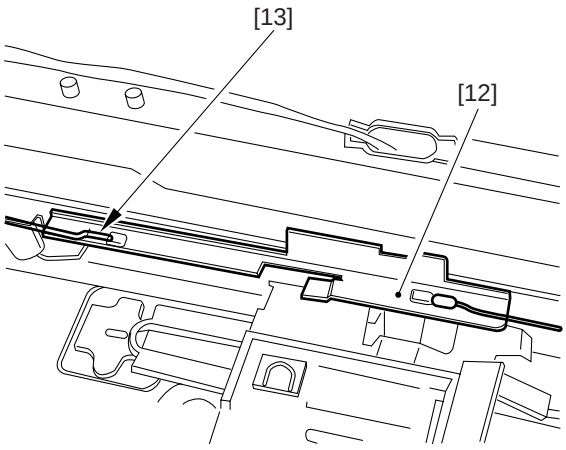

Figure 3-343

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2. Routing the Lens Cable

1) After routing the lens cable, keep the lever [1] of the No. 4/5 mirror mount disengaged from the cam gear [2] (so that the lever will not come into contact when the cam gear rotates).

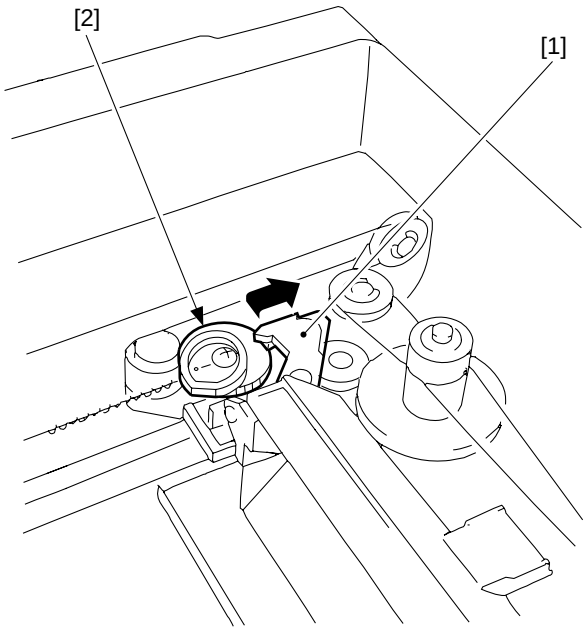

Figure 3-344

2) While keeping the condition in step 1), turn on the power; when the No. 1 mirror mount and the lens stopped moving, turn off the power.
   • The lens will move to the Direct position.
3) Check to make sure that the tip of the lever [1] of the No. 4/5 mirror mount and the marking [3] on the top face of the cam gear [2] match; then, engage the lever [1] and the cam gear [2].

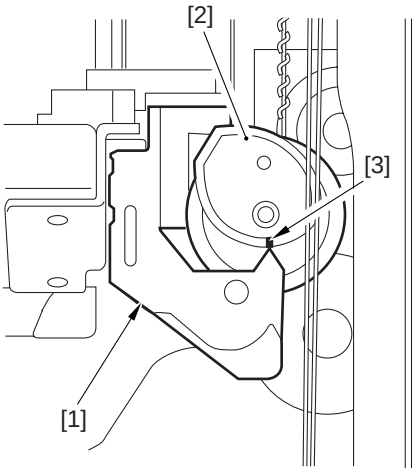

Figure 3-345

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4) If the tip of the lever [1] and the marking on the cam gear [2] do not match, remove the fixing screw [4] of the cam gear [2] and detach the cam gear; then, mount the cam gear once again so that the marking on it and the tip of the lever match.

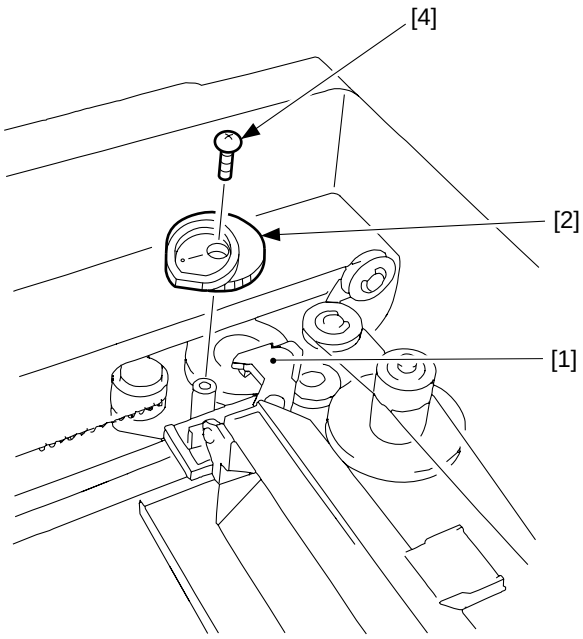

Figure 3-346

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C. Exposure System

1. Removing the Scanning Lamp

1) Disconnect the power plug.
2) Remove the copyboard glass.
   (See Chapter 7.Ⅲ.C.1. “Removing the Copyboard Glass.”)
3) Holding the middle of the No. 1 mirror mount [1], move the No. 1 mirror mount [1] to the right by about 5 cm.

Cauiton:
Do not hold the reflecting plate.

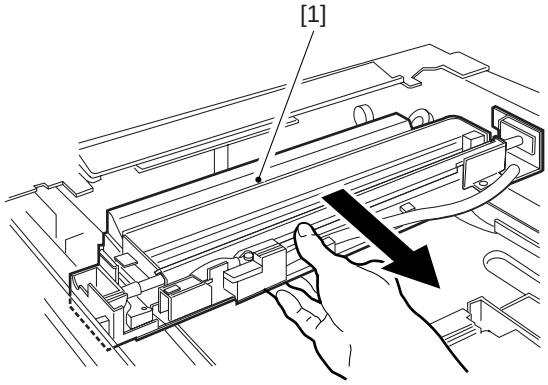

Figure 3-347

4) Free the harness [3] from the guide [2]; then, remove the screw [4], and detach the reflecting plate [5].

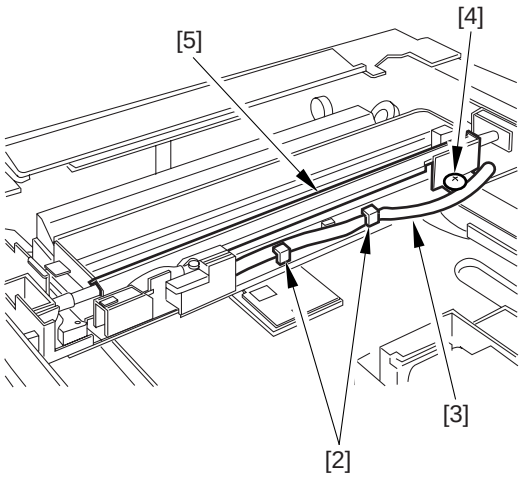

Figure 3-348

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5) While pushing the electrode mount [6] found at the rear of the machine in the direction of the arrow, detach the scanning lamp [7].

Caution:

1. Do not start the work if the scanning lamp is hot.
2. Do not leave fingerprints on the surface of the scanning lamp.
3. If the surface of the scanning lamp is soiled, dry wipe it.

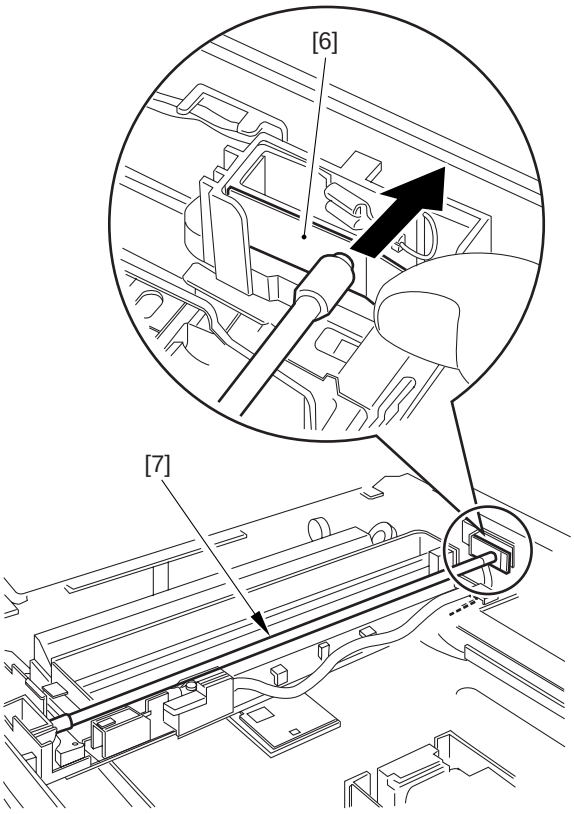

Figure 3-349

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2. Points to Note When Mounting the Lamp

When mounting the scanning lamp, be sure that the logo mark (or the name of the manufacturer) is toward the front. Further, be sure that the protrusion near the middle of the lamp is as shown.

Caution:

- Do not touch the lamp portion.
- If you have replaced the scanning lamp, be sure to perform intensity adjustment (p. 11-42) and AE adjustment (p. 11-43).

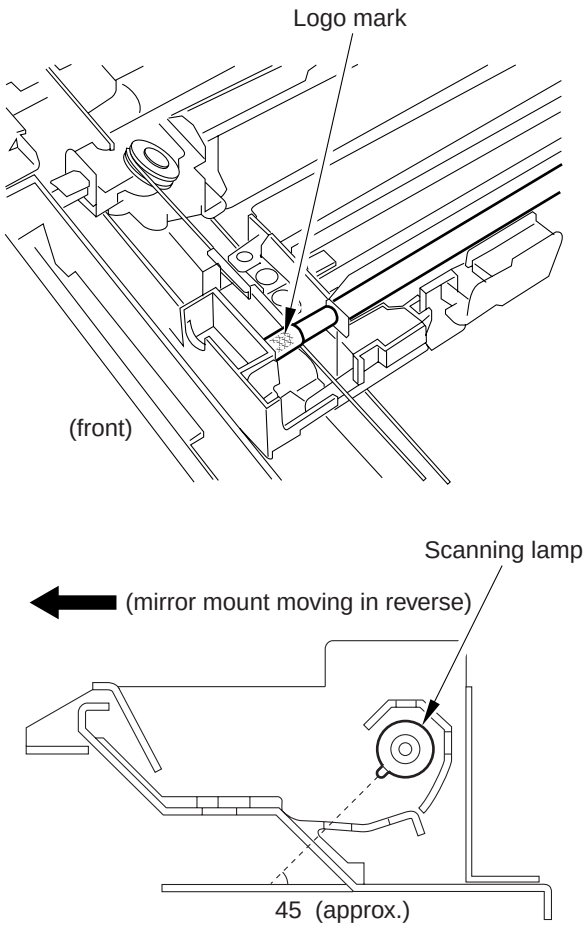

Figure 3-350

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3. Removing the Thermal Fuse

1) Disconnect the power plug.
2) Remove the copyboard glass.
   (See Chapter 7.Ⅲ.C.1.“Removing the Copyboard Glass.”)
3) Remove the two screws [1], and detach the thermal fuse [2].

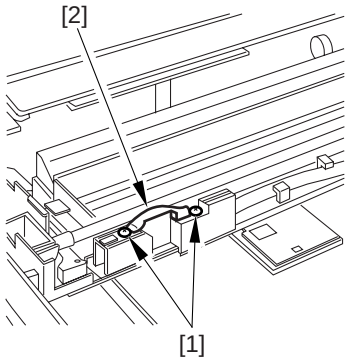

Figure 3-351

4. Points to Note When Mounting the Fuse

When mounting the thermal fuse, be sure that the thermal fuse is oriented as shown.

Make sure that the fuse is in contact with the reflecting plate.

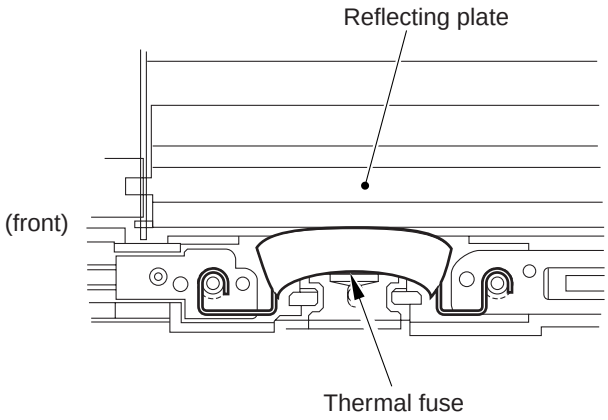

Figure 3-352

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5. Removing the Thermistor Unit

1) Remove the top cover.
(See Chapter 7.Ⅲ.A.1. “Removing the Top Cover.”)
2) Disconnect the connector (J131) [1] from the DC controller PCB; remove the screw [2], and detach the thermistor unit [3].

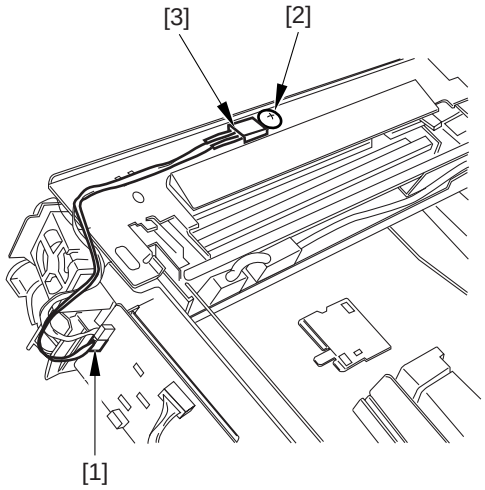

Figure 3-353

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CHAPTER 4

IMAGE FORMATION SYSTEM

This chapter discusses the principles of how images are formed. It also explains the timing at which the various units involved in image formation are operated, and shows how they may be disassembled/assembled and adjusted.

I. IMAGE FORMATION SYSTEM ... 4-1
- A. Outline 4-1
- B. Timing Chart for the Image Formation System 4-3
- C. Controlling the Primary Charging Roller Bias 4-4
- D. Controlling the Transfer Roller Bias 4-8
- E. Controlling the Developing/ Separation Static Eliminator Bias 4-11
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- C. Blank Exposure 4-26

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I. IMAGE FORMATION SYSTEM

A. Outline

The major functions of the image formation system are as follows:

Item	Description
Controlling the primary charging roller bias	AC constant current control, on/off control DC constant voltage control, on/off control DC voltage level control
Transfer roller bias control	DC constant voltage control, on/off control DC constant current control (ATVC, cleaning bias) Voltage level control Polarity switching
Developing/separation static eliminator bias control	DC constant voltage control, on/off control AC constant voltage control, on/off control DC voltage level control
Density control	Developing DC bias control
Blanking control	Side blanking lamp

Table 4-101

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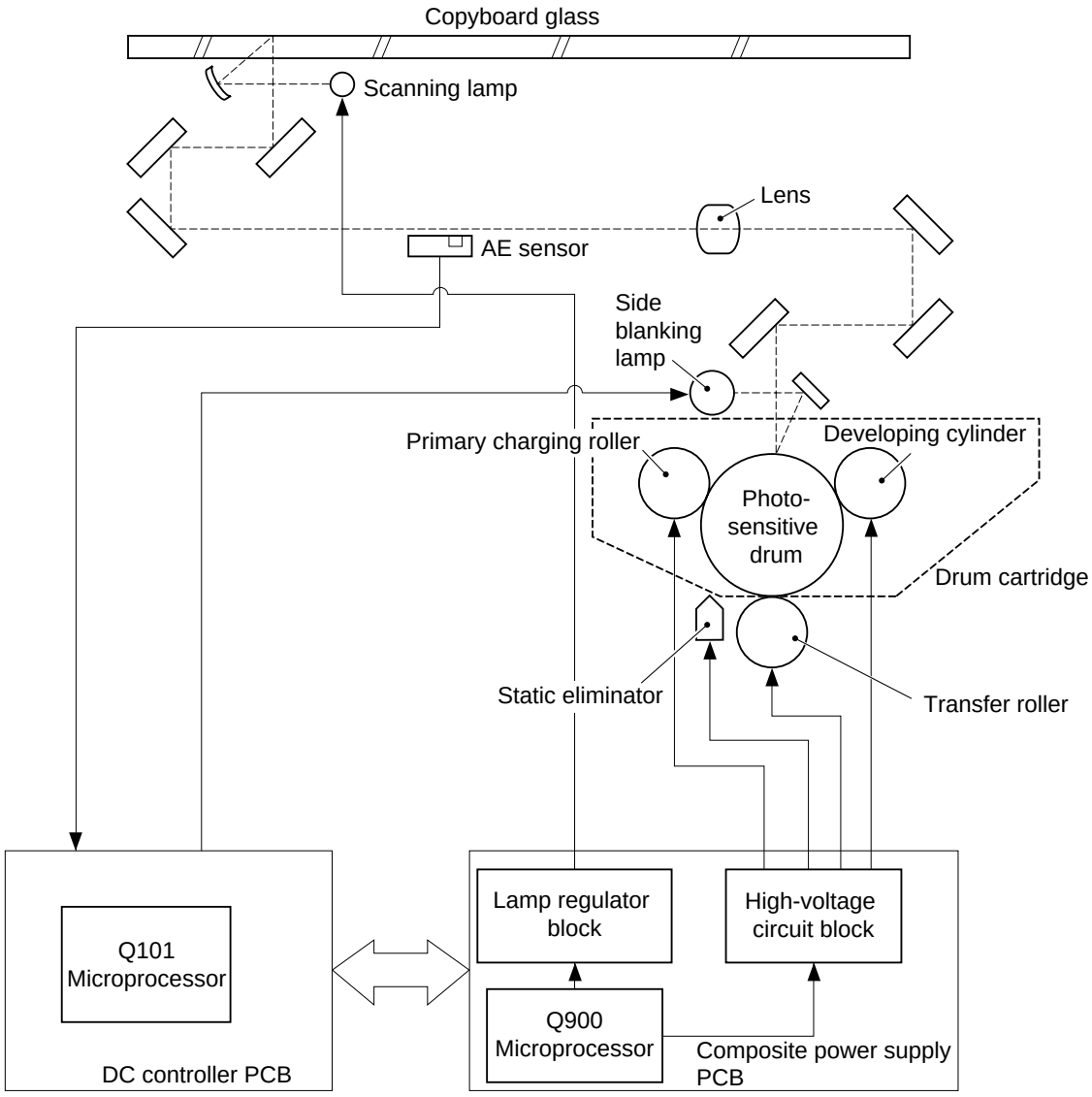

Figure 4-101

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B. Timing Chart for the Image Formation System

Basic Sequence of Operations (Direct, 2 copies, continuous)

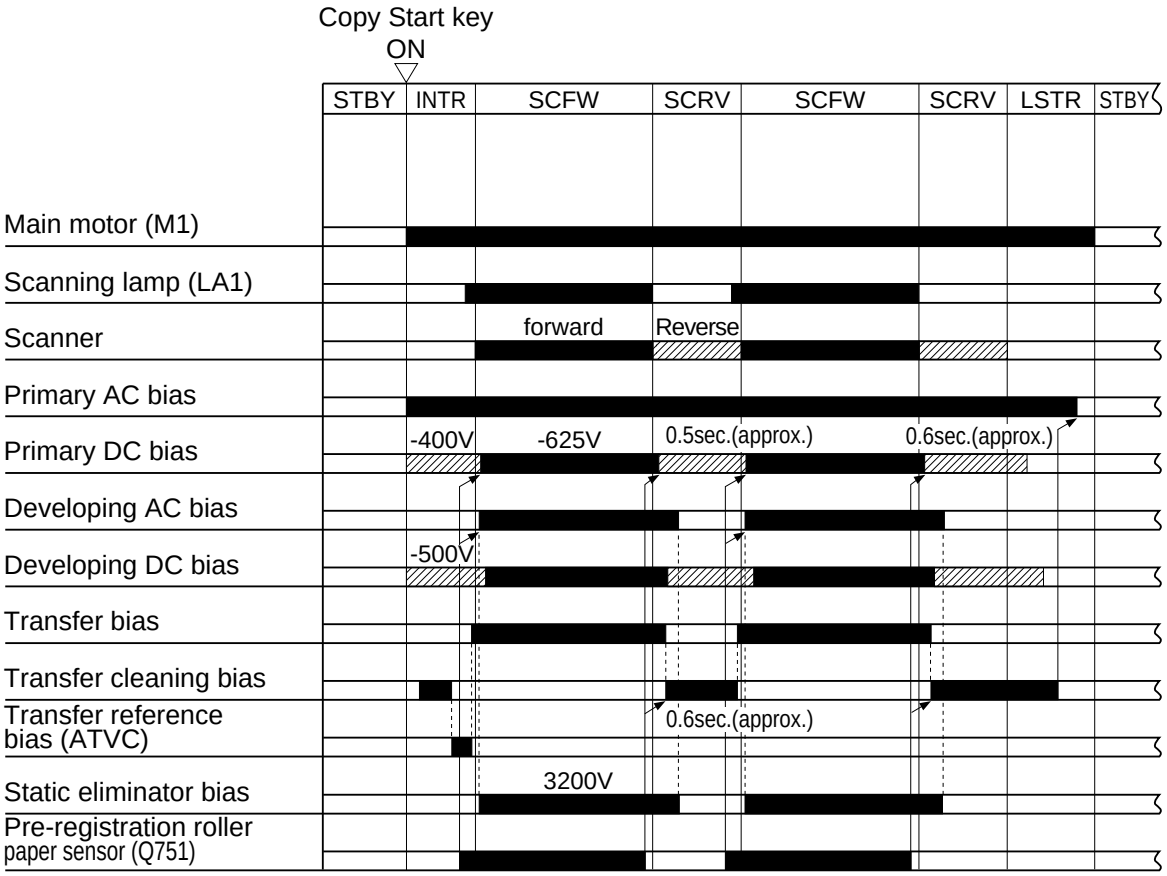

Figure 4-102

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C. Controlling the Primary Charging Roller Bias

1. Outline

The circuit shown in Figure 4-103 is used to control the voltage applied to the primary charging roller, and has the following functions:

- Turning on and off the DC/AC bias
- Controlling the DC bias to a specific voltage
- Controlling the AC bias to a specific voltage
- Switching the level of the DC bias

Both DC bias and AC bias are applied to the primary charging roller so as to ensure that the surface potential of the photosensitive drum will be uniform. The level of the DC bias is switched between when forming copy images and when not forming copy images.

Reference:

DC component:	-400 V (non-image area)/-625 V (image area)
AC component:	2000 Vpp to 3000 Vpp (885µA)

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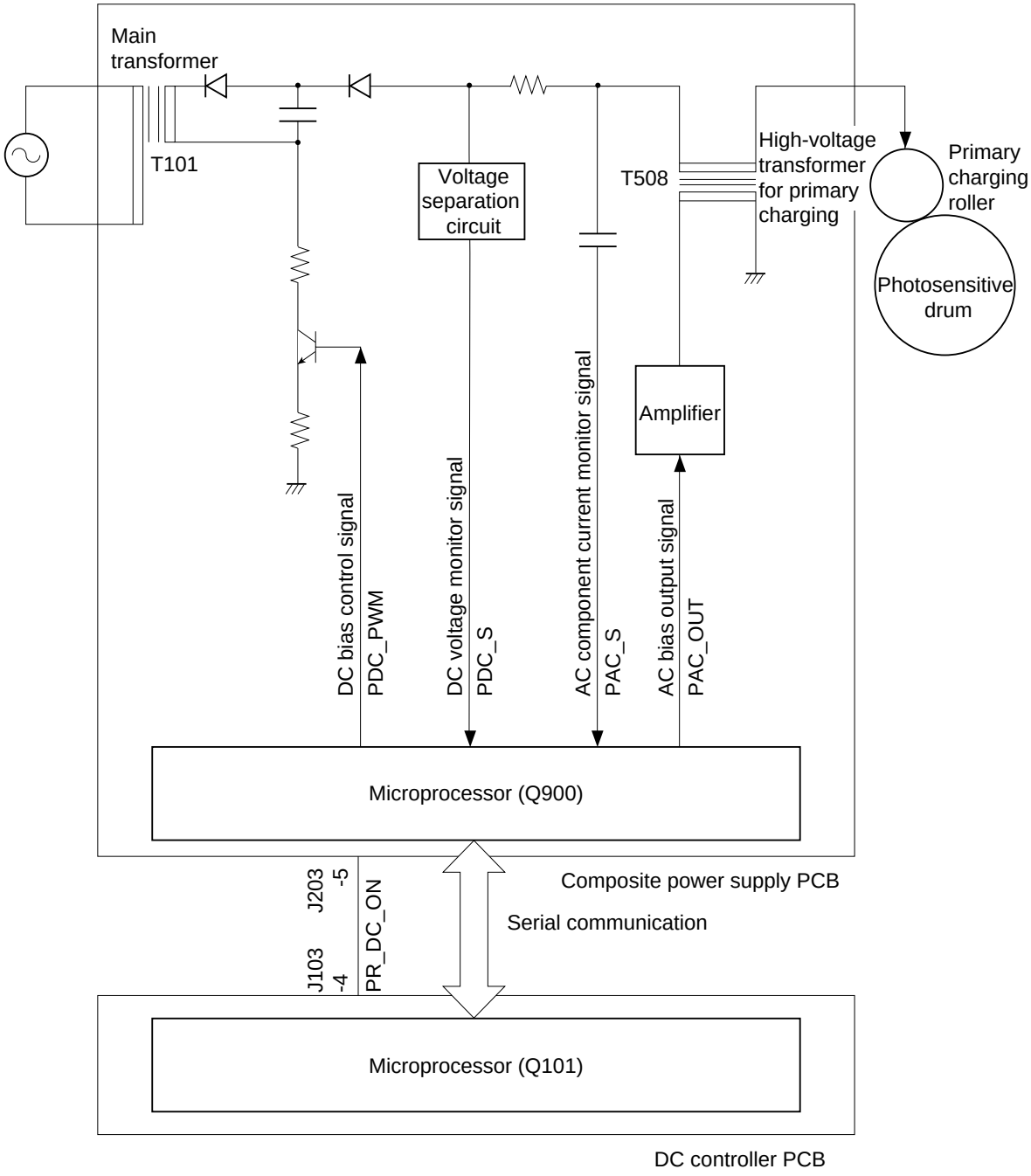

Figure 4-103

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2. Operations

a. Turning On and Off the DC Bias

The DC bias applied to the primary charging roller is turned on or off by the serial communication signal and the primary charging bias ON signal (PR_DC_ON) from the DC controller PCB.

When the Copy Start key is pressed, the DC bias ON signal (serial) and the primary charging bias ON signal (PR_DC_ON) are sent. The microprocessor (Q900) on the composite power supply PCB generates the DC bias control signal (PDC_PWM) based on the combination of the serial signal and the PR_DC_ON signal, applying a DC bias to the primary charging roller.

	DC bias ON signal (8-bit signal communication)		PR_DC_ON (J103-4)
	bit0	bit1	
DC bias ON (image area)	1	–	0
DC bias ON (non-image area)	1	0	1
DC bias OFF	0	0	1

Table 4-102 Relationship between DC Bias Output and Signal

b. Turning On and Off the AC Bias

The AC bias applied to the primary charging roller is turned on and off by the serial communication signal from the DC controller PCB.

When the AC bias ON signal arrives from the DC controller PCB, the microprocessor (Q900) on the composite power supply PCB generates the AC bias output signal (PAC_OUT), thereby applying an AC bias to the primary charging roller.

c. Controlling the DC/AC Bias to a Specific Voltage/Current

The DC bias and the AC bias applied to the primary charging roller are controlled by the microprocessor (Q900) on the composite power supply PCB so that they remain a specific level.

When a DC/AC bias is generated, the microprocessor (Q900) on the composite power supply PCB detects the DC voltage monitor signal (PDC_S) and the AC component current monitor signal (PAC_S), compares their levels against the reference levels, and varies the DC bias control signal (PDC_PWM) and the AC bias output signal (PAC_OUT) according to the differences so as to ensure that they remain specific levels.

Reference:

The DC bias control signal varies its pulse duty ratio while the AC bias output signal varies its amplitude to change the level of the DC/AC bias.

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d. Switching the DC Bias Level

The machine switches the DC bias level between the copy image area (-625 V) and the non-copy image area (-400 V).

The level of the DC bias is switched by the DC bias ON signal (serial signal) generated by the DC controller PCB.

The microprocessor (Q900) on the composite power supply PCB varies the DC bias control signal (PDC_PWM) to switch the level of the DC bias. (See Table 4-102.)

Reference:

The machine applies a DC bias over a non-copy image area (between sheets) so as to prevent charging the photosensitive drum to a positive potential otherwise caused by the cleaning bias from the transfer roller.

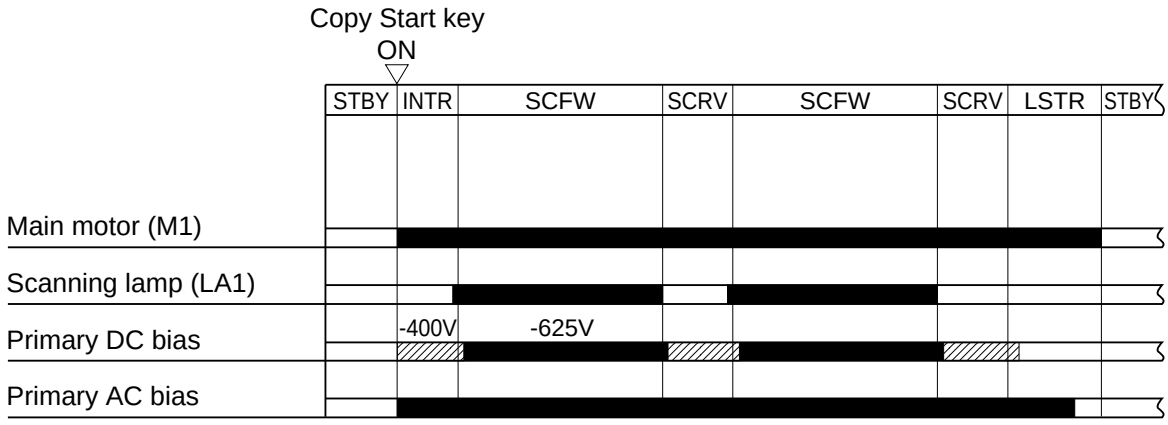

Figure 4-104

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D. Controlling the Transfer Roller Bias

1. Outline

The circuit shown in Figure 4-105 is used to control the voltage applied to the transfer charging roller, and has the following functions:

- Turning on and off the transfer bias.
- Controlling the transfer bias to a constant voltage.
- Correcting the transfer bias voltage level (ATVC)
- Switching the transfer bias polarity (cleaning bias)

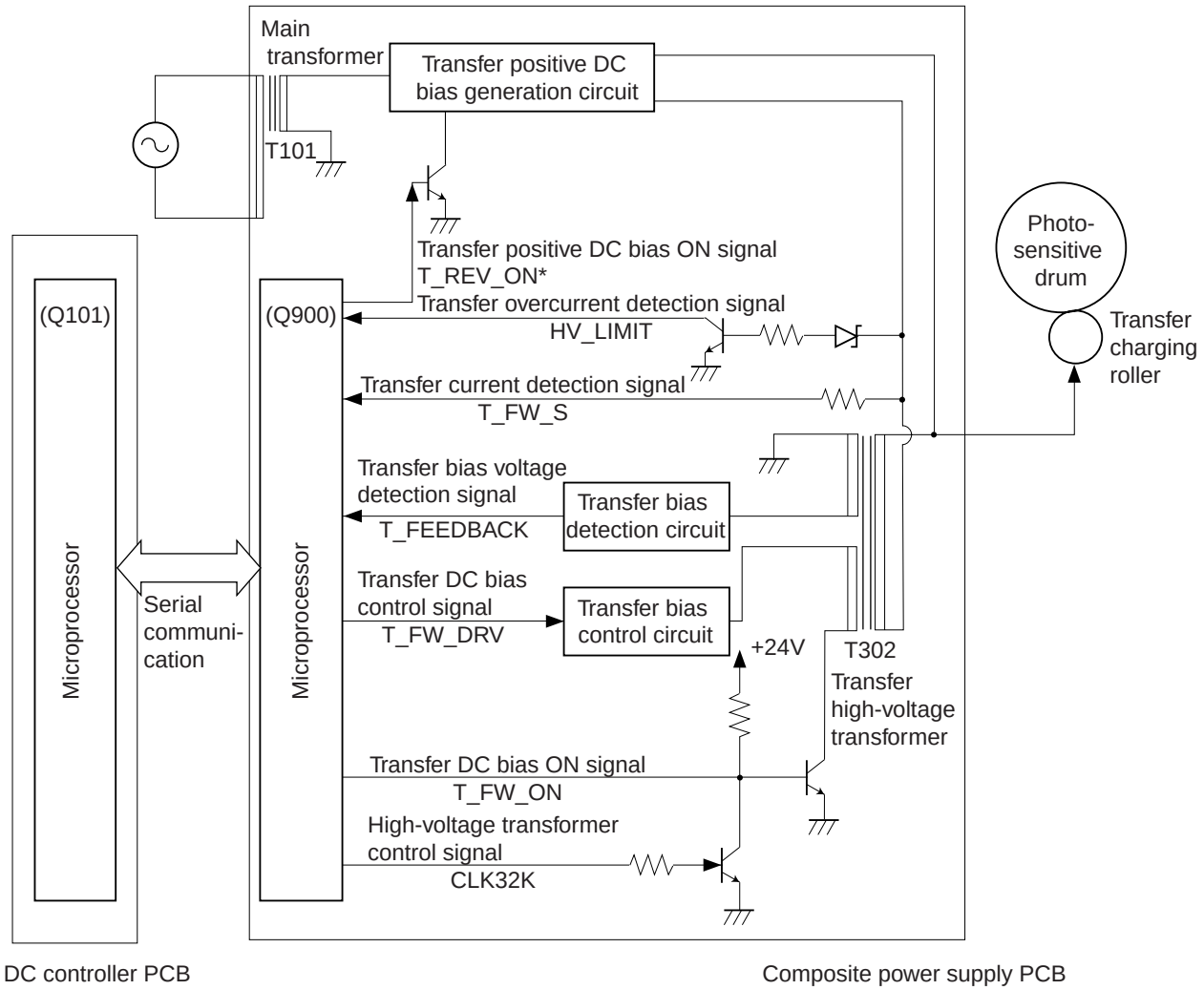

Figure 4-105

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2. Operations

a. Turning On and Off the Transfer Bias

The transfer bias applied to the transfer charging roller is turned on and off by the serial communication signal from the DC controller PCB.

When the transfer bias ON signal (serial signal) is generated by the DC controller PCB, the microprocessor (Q900) on the composite power supply PCB generates the high-voltage transformer control signal (CLK32K), transfer DC bias ON signal (T_FW_ON), and transfer DC bias control signal (T_FW_DRV), thereby applying the transfer bias to the transfer charging roller.

	Transfer bias ON signal (serial communication)		T-FW_ON signal	T_REV_ON* signal
	bit2	bit3		
Negative transfer bias ON	1	0	1	1
Positive transfer bias ON (cleaning bias)	1	1	1	0
Transfer bias OFF	0	0	0	1
ATVC	0	1	1	1

Table 4-103 Relationship between Transfer Bias Output and Signals

b. Controlling the Transfer Bias to a Specific Voltage

The transfer bias applied to the transfer charging roller is controlled to a specific level by the microprocessor (Q900) on the composite power supply PCB.

When a transfer bias is generated, the microprocessor (Q900) on the composite power supply PCB checks the transfer bias voltage detection signal (T_FEEDBACK), compares it against the reference value, and varies the transfer DC bias control signal (T_FW_DRV) according to the difference to ensure that the transfer bias remains a specific level at all times.

Reference:

The level of transfer bias applied to the transfer roller during a copying run is between -7.5 and -3.0 kV.

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c. Correcting the Transfer Bias Voltage Level (ATVC control)

The machine automatically corrects the application voltage level of the transfer bias to correct the changes in the transfer efficiency caused by the deterioration of the transfer roller or the changes in the environment.

A current of a specific level (-14.6 µA) is applied to the transfer charging roller during initial rotation executed each time the Copy Start key is pressed. The microprocessor (Q900) on the composite power supply PCB checks the transfer current detection signal (T_FW_S), and varies the transfer bias applied to the transfer charging roller so that it will be an appropriate level.

Reference:

While the transfer charging roller makes a single rotation, the microprocessor (Q900) checks the transfer current detection signal four times, and determines the level of the transfer bias to apply using the average of the readings.

d. Switching the Polarity of the Transfer Bias (cleaning bias)

The machine uses a direct charging method, allowing toner to move from the photosensitive drum to the transfer roller as when a jam occurs if left unattended.

To remove excess toner, a positive voltage is applied to the transfer roller as follows, thereby returning the toner from the roller to the drum:

< Timing >

- While initial rotation is executed after the Copy Start key is pressed
- Part of the period in which the scanner is moved in reverse
- Part of the period in which last rotation is executed

The polarity of the transfer bias is switched by the transfer bias ON signal (serial signal) generated by the DC controller PCB.

In response to the signal, the microprocessor (Q900) on the composite power supply PCB causes the transfer positive DC bias On signal (T_REV_ON*) to go '0', so that the positive component of the transfer bias (constant current control, + 1.56µA/2.5 kV max.) will be applied to the transfer roller. (See Table 4-103.)

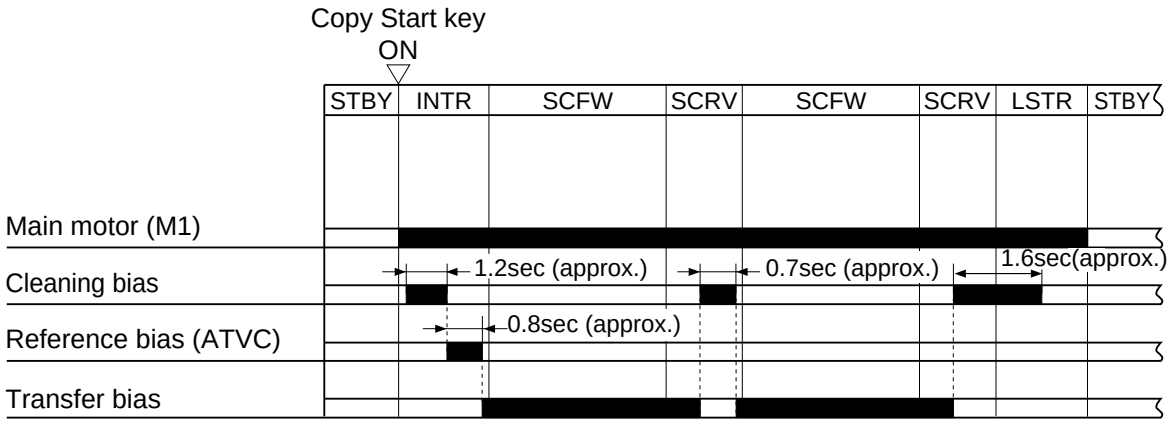

Figure 4-106

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E. Controlling the Developing/Separation Static Eliminator Bias

1. Outline

The circuit shown in Figure 4-107 is used to control the voltage applied to the developing assembly and the separation static eliminator, and has the following functions:

- Turning on and off the developing DC bias
- Turning on and off the AC bias (turning on and off the static eliminator bias)
- Controlling the voltage level of the developing DC bias

Both AC bias and DC bias are applied to the developing cylinder while copies are being made. When the photosensitive drum rotates and yet developing is not under way, about -500 VDC is applied to the developing cylinder regardless of the position of the density adjusting lever, thereby preventing adhesion of excess toner on the photosensitive drum.

Reference :

Developing DC bias : -80 ~ -550V
Developing AC bias : 1200Vpp ± 10%

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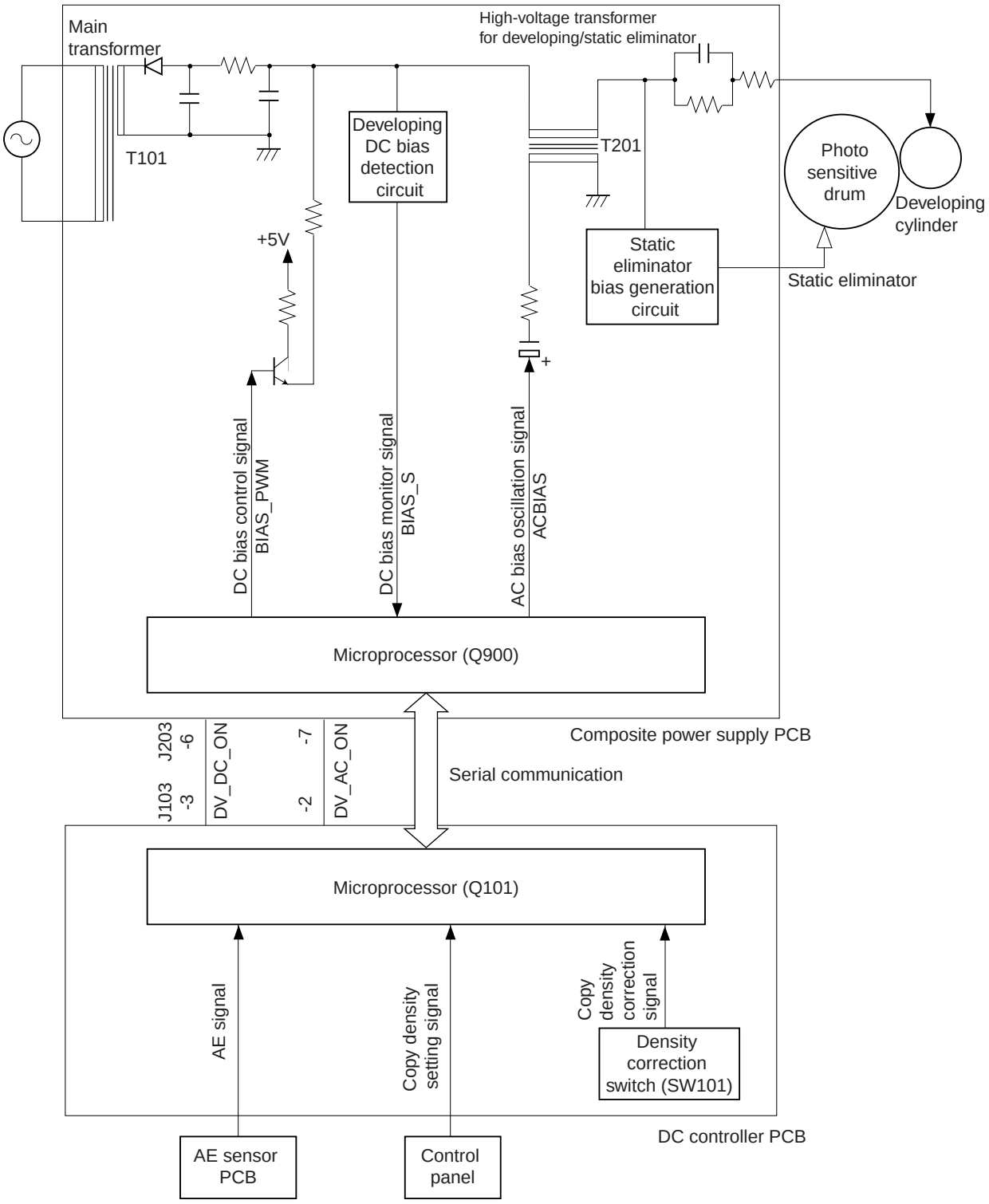

Figure 4-107

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2. Turning On and Off the DC Bias

The DC bias applied to the developing cylinder is turned on and off by the signal communication signal and the developing DC bias ON signal (DV_DC_ON) generated by the DC controller PCB.

When the developing DCON signal (serial signal) and the developing DC bias ON sign (DV_DC_ON) are generated by the DC controller PCB, the microprocessor (Q900) on the composite power supply PCB sends the DC bias control signal (BIAS_PWM), thereby applying a DC bias to the developing cylinder.

	Developing DCON signal (Serial communication)		DV_DC_ON (J103-3)
	bit5	bit6	
DC bias ON	–	1	0
DC bias ON (- 500V)	0	1	1
DC bias OFF	0	0	1

Table 4-104 Relationship between Developing DC Bias and Signals

3. Turning On and Off the AC Bias

The AC bias is turned on and off by the developing AC bias ON signal (DV_AC_ON) generated by the DC controller PCB.

The DC controller PCB sends the developing AC bias ON signal (DV_AC_ON) to the composite power supply PCB a specific period of time after copy paper has moved past the registration sensor. The microprocessor (Q900) on the composite power supply PCB generates the AC bias oscillation signal (ACBIAS) so that an AC bias is applied to the developing cylinder.

The AC bias is modified/rectified and then supplied to the static eliminator (static eliminator bias, about 3.2 kV).

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4. Controlling the Voltage Level of the Developing DC Bias

The DC bias control signal (BIAS_PWM) is varied according to the following settings to change the DC component of the developing bias so as to control the copy density:

- Setting of the density adjusting lever (in manual adjustment mode)
- Output of the AE sensor (in automatic control mode)
- Setting of copy mode (toner save mode, photo mode)
- Setting of the density correction switch (SW101)

The density correction switch (SW101) mounted on the DC controller PCB may be set to any of three levels, enabling correction of foggy images or light images caused as by a change in the sensitivity of the photosensitive drum.

The density correction switch (SW101) affects both manual density adjustment and auto density adjustment (AE).

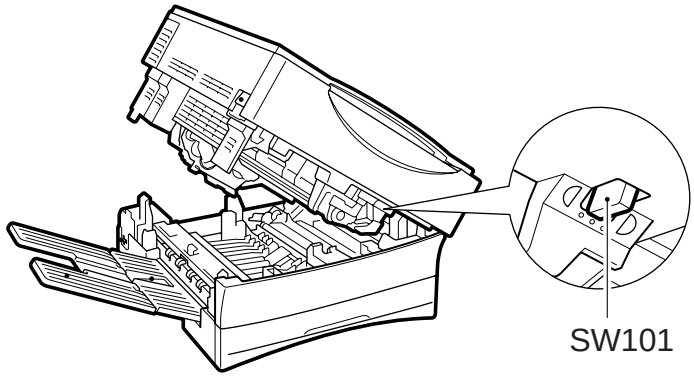

Figure 4-108

If the machine is not equipped with a density correction switch (SW101), the image density changes in AE mode according to how the density adjusting lever is set.

The machine corrects the level of the developing DC bias and the voltage supplied to the scanning lamp as follows in reference to the setting used for normal copying when toner save mode or photo mode is selected.

	Toner save mode	Photo mode
Developing DC bias	-75V	+15V
Voltage supplied to the scanning lamp	-2V*1 -3V*2	-2V*1 -3V*2

*1: 120 V model
*2: 220 / 240 V model

Table 4-105 Relationship between Copying Mode and Voltage Correction Level

Figures 4-109 through -112 show the changes in the DC bias occurring as a result of changes in the output of the AE sensor during auto density correction and how the density adjusting lever is set during manual density adjustment.

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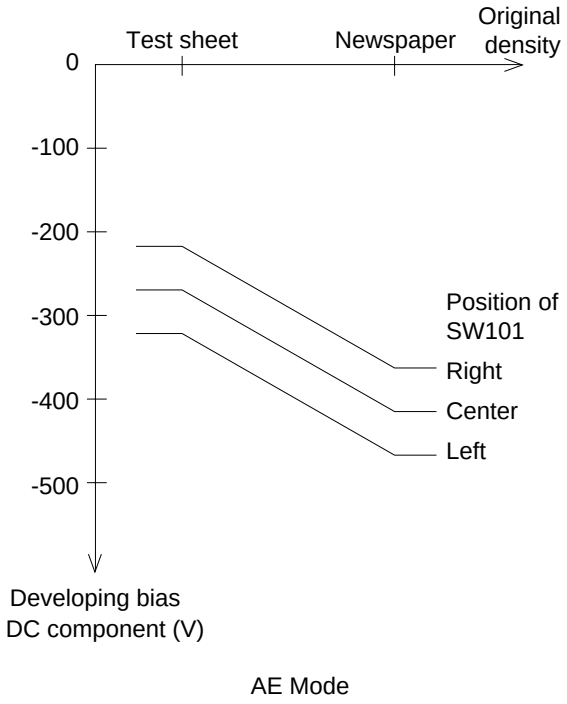
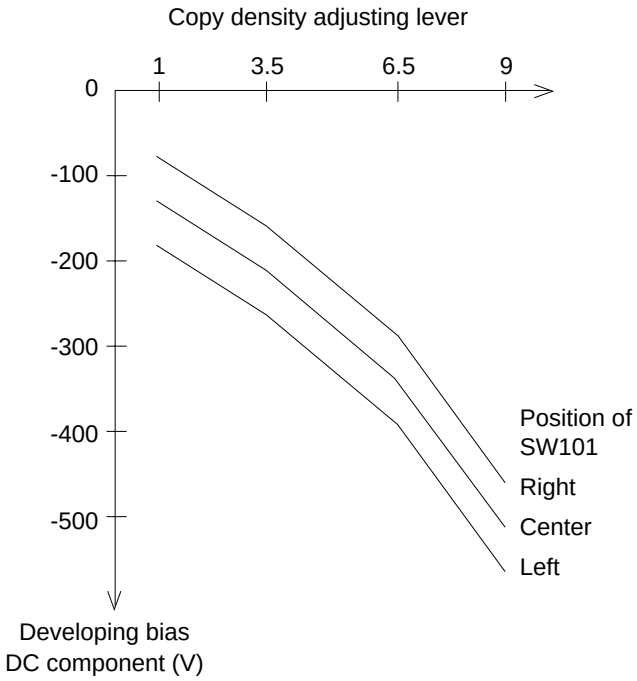


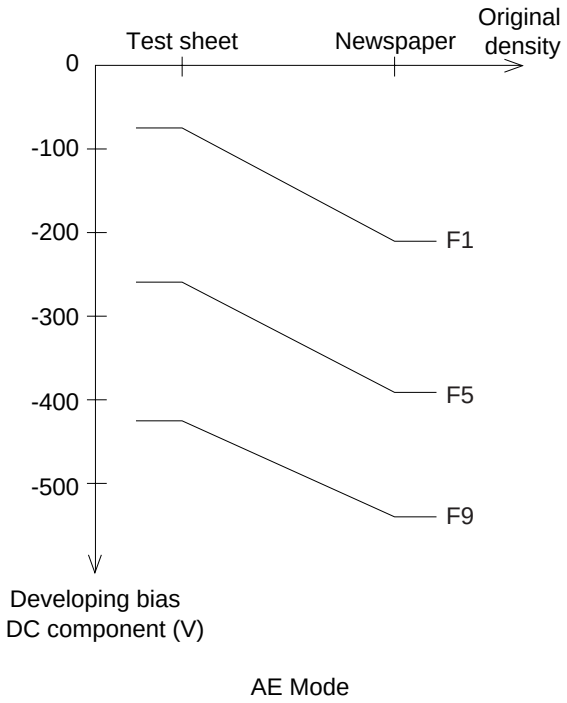
AE Mode

Figure 4-109 (SW101)



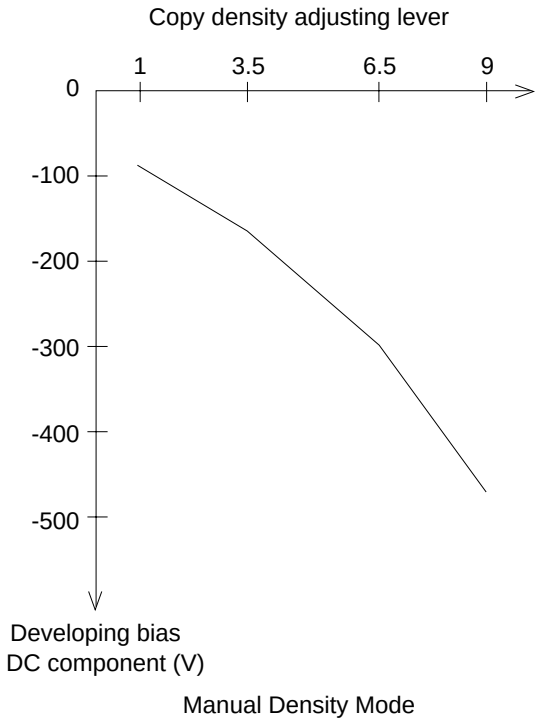
Manual Density Mode

Figure 4-110 (SW101)



AE Mode

Figure 4-111 (Non-SW101)



Manual Density Mode

Figure 4-112 (Non-SW101)

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F. Measuring the Density of Originals

1. Outline

The machine is equipped with an auto density adjustment (AE) mechanism designed to control the DC component of the developing bias.

The AE mechanism enables production of copies free of fogging as long as the original is more or less uniform in density by varying the DC component of the developing bias according to the density of the original.

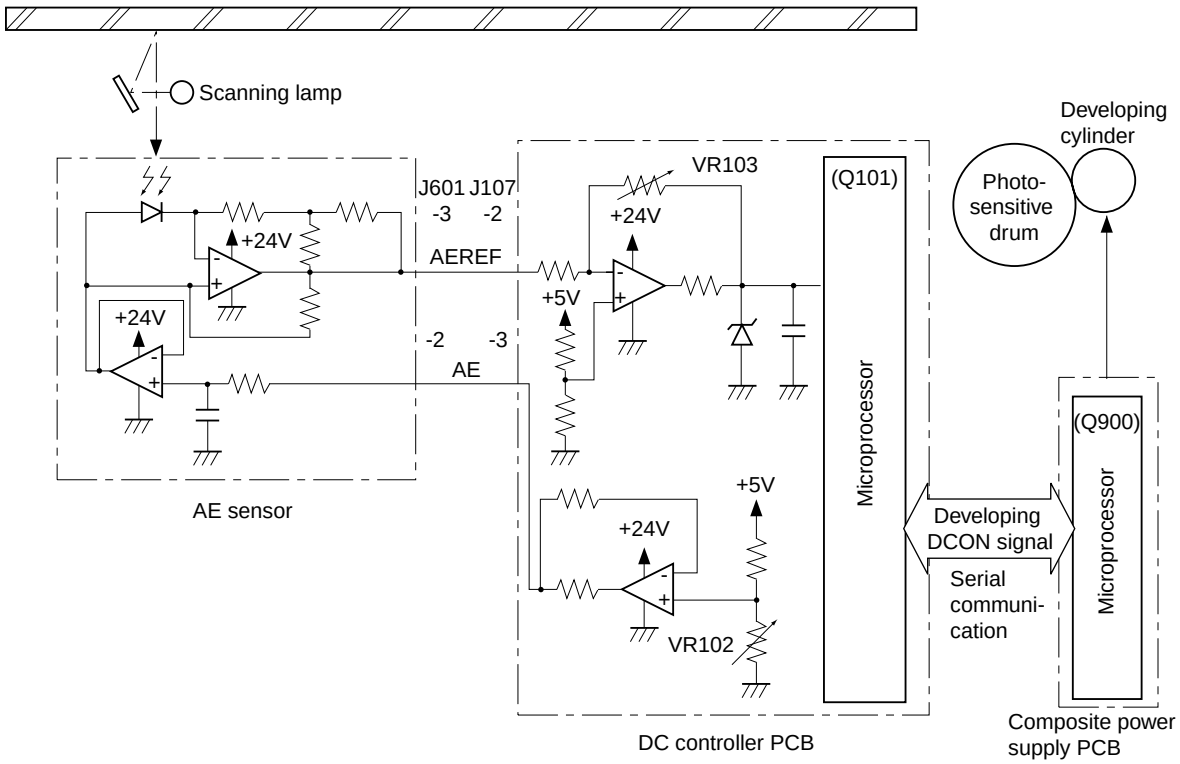

Figure 4-113

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2. Operations

When measuring the density of an original, the scanner turns on the scanning lamp, and moves to a point 115 mm from the home position. At this time, the AE sensor reads the level of light reflected by the area shown in Figure 4-112, and sends the AE signal (AE) to the DC controller PCB.

In response, the DC controller PCB sends the developing DCON signal (serial communication) to the composite power supply PCB according to the level of the AE signal. The microprocessor (Q900) on the composite power supply PCB controls the level of the DC bias applied to the developing cylinder based on the level of this signal.

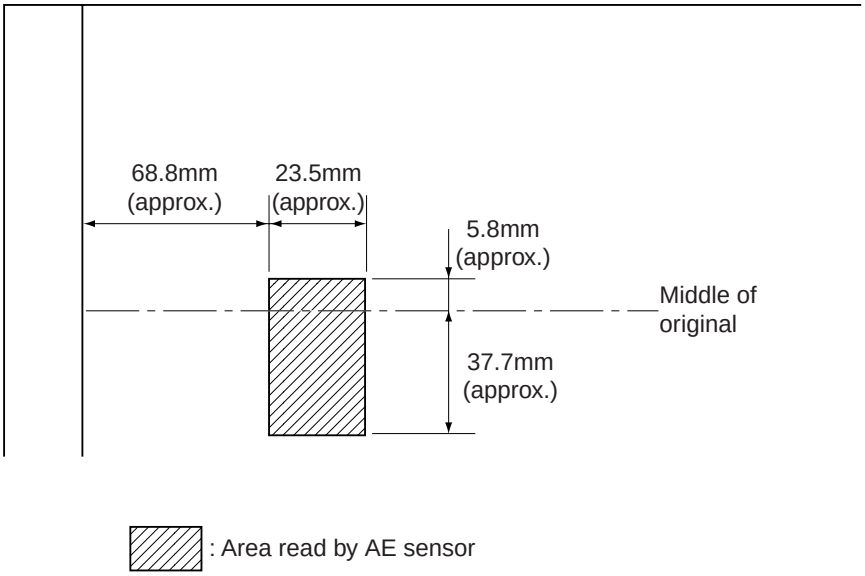

Figure 4-114

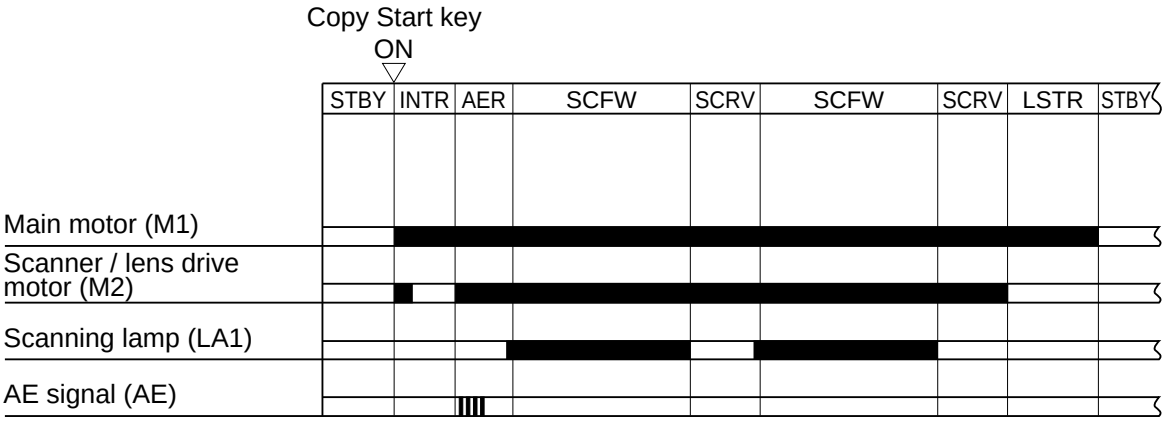

Figure 4-115

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3. AE Adjustment (VR102, VR103)

If you have replaced the scanning lamp or the AE sensor PCB, make adjustments as follows:

Operating Procedure

Before Starting the Work

- Obtain a newspaper showing more or less even print. (Do not use one with many photos or large headings.)
- Obtain five sheets of white sheets of paper.
- Check to make sure that the intensity of the scanning lamp has been adjusted when you have replaced the scanning lamp.
- Set the density correction switch (SW101) to the middle setting. If the machine is not equipped with a density correction switch, set the density adjusting lever to the middle setting.

1) Short JP103 and JP104 on the DC controller PCB with a screwdriver or the like.

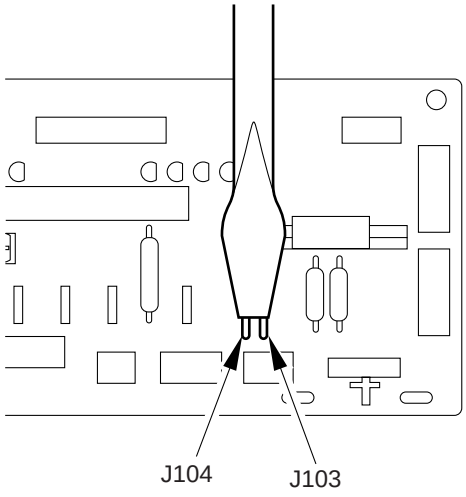

Figure 4-116

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2) While keeping the condition in step 1), turn on the power switch.
   • The scanning lamp will turn on, an the main motor (M1) will rotate.
3) Stop shorting JP103 and JP104.
4) Turn VR103 on the DC controller PCB fully clockwise.

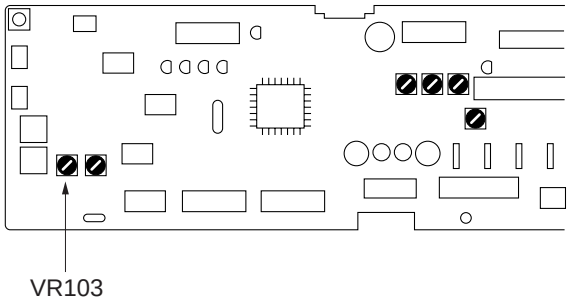

Figure 4-117

5) Place a newspaper on the copyboard, and close the copyboard cover.
6) Turn VR102 so that the reading in the indicator is from ‘A3’ to ‘Ad’.

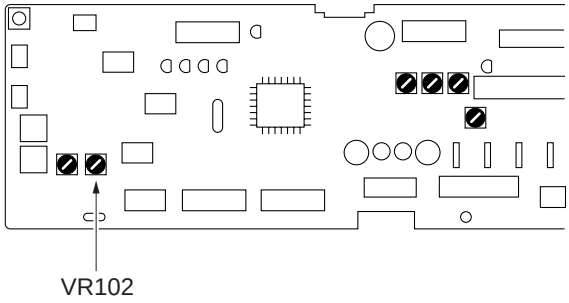

Figure 4-118

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7) Remove the newspaper from the copyboard; in its place, place five blank sheets of copy paper, and close the copyboard cover.
8) Turn VR103 on the DC controller PCB so that the reading of the indicator is from '52' to '5c'.

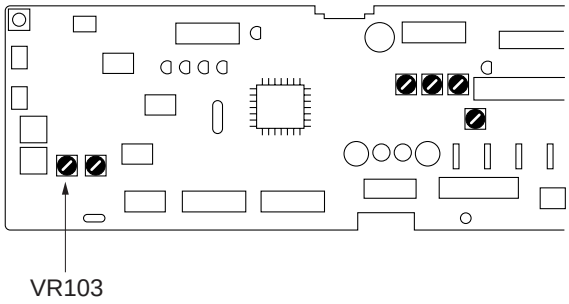

Figure 4-119

9) Repeat steps 5) through 8) so that the values of both VR102 and VR103 are target values.

Caution:

If you cannot set VR102 and VR103 to the target values at the same time, turn VR103 fully counterclockwise, and go back to step 5) and make adjustments once again.

10) Make a copy, and check to make sure that it is free of fogging and the density of its characters is good.
    - If it is foggy or the characters are too light, go back to step 1) and start over.
    - If no change is noted after re-adjustment, use the density correcting switch (SW101).

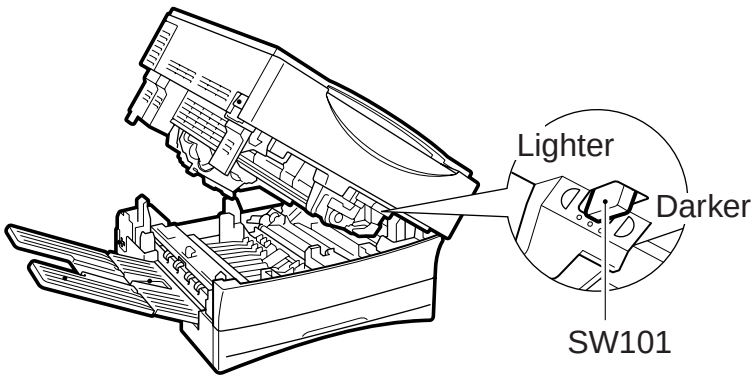

Figure 4-120

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G. Controlling the Side Blanking Mechanism

1. Outline

The machine is equipped with a side blanking lamp at the front and the rear used to prevent adhesion of excess toner when making reduced copies.

2. Operations

To blank out the non-image area in reduce mode, the side blanking lamp is moved in relation to the distance over which the lens moves as detected by the lens shift detecting shaft.

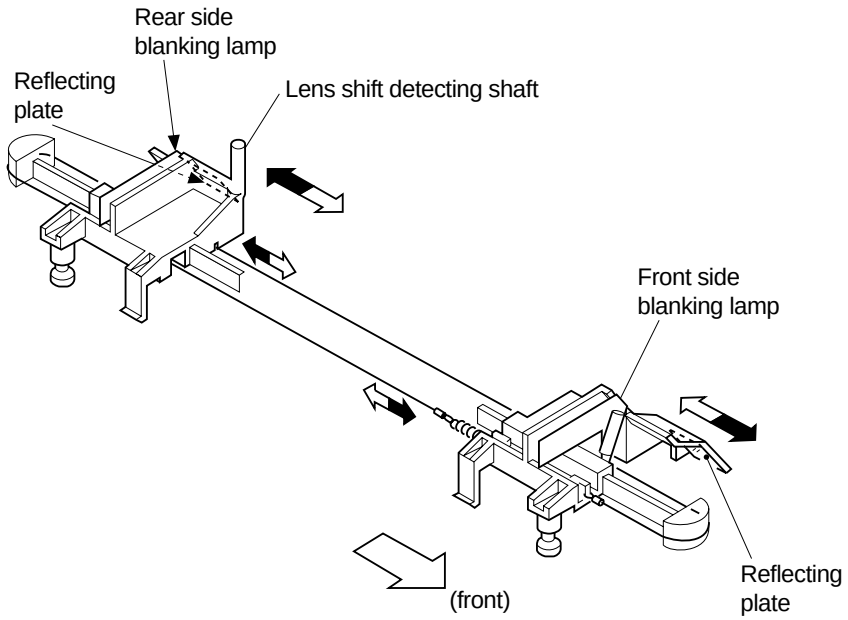
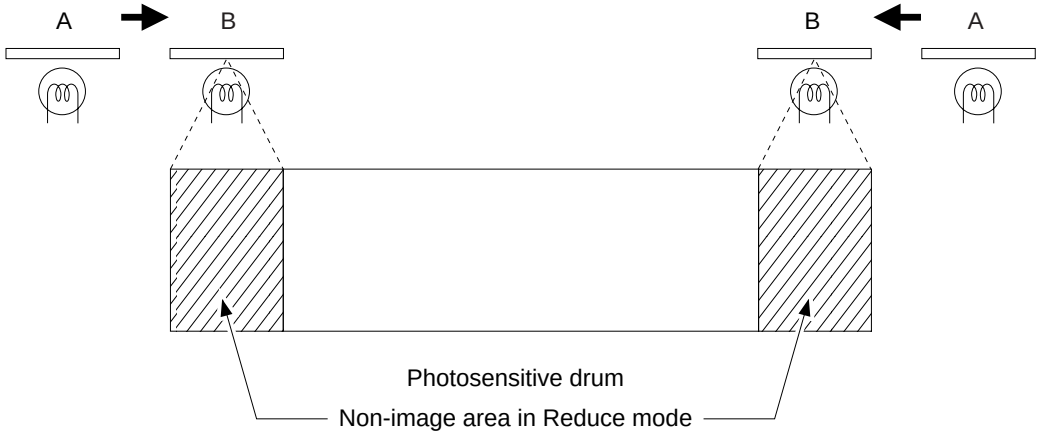


Figure 4-121



A: Position of the side blanking lamp in Direct and Reduce mode
B: Position of the side blanking lamp in Reduce mode

Figure 4-122

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II. DISASSEMBLY/ASSEMBLY

As needed, disassemble/assemble the machine with the following in mind:

1. ⚠ Before starting the work, turn off the power switch and disconnect the power plug for safety.
2. Unless otherwise instructed, assemble the parts by reversing the steps used to disassemble it.
3. Identify the screws by type (length, diameter) and location.
4. Use the washers where necessary. (The screws used to mount the grounding wire and Varistors come with a washer to ensure electrical continuity.)
5. As necessary, cut the harnessband.
6. As a rule, do not operate the machine with any of its part removed.
7. A few of the screws used are special screws (with wider thread intervals). Do not use any screws indiscriminately.

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A. Cartridge

1. Outline

The machine's photosensitive drum, primary charging roller, developing assembly, and cleaner are housed in a single container referred to as a “cartridge.” (You cannot disassemble the cartridge.)

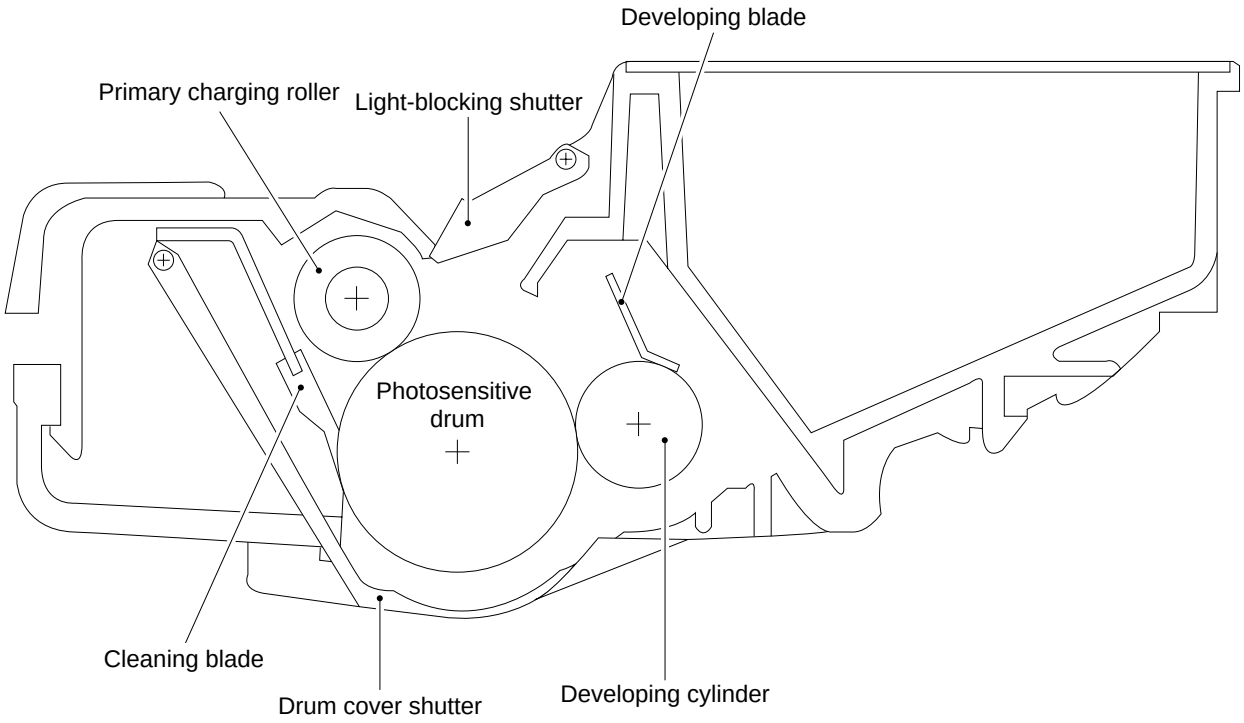

Figure 4-201

a. Drum Cover Shutter

If exposed to strong light for a long time, the photosensitive drum can develop photo memory, which can cause white spots or black bands on copies.

To prevent photo memory, the machine is equipped with a drum cover shutter. Do not open the shutter unless absolutely necessary. It is designed to open when the cartridge is fit into the machine and the machine's top unit is closed.

b. Light-Blocking Shutter

When the cartridge is removed from the machine, light makes its way through the opening used to expose images. As in the case of the drum cover shutter, the light-blocking shutter is provided to protect the photosensitive drum from light.

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2. Cleaning the Drum

Caution:

As a rule, do not touch or clean the photosensitive drum.

1) Open the machine's top unit, and take out the cartridge.
2) Turn over the cartridge, and open the drum cover shutter
3) Clean the drum surface with a flannel cloth coated with toner.

Caution:

1. If you need to rotate the drum, be sure to rotate it in the direction in which it rotates when making copies. Otherwise, the leaf spring used to apply a developing bias to the developing cylinder will develop poor contact.
2. If you must clean it, use a flannel cloth. Do not use paper, lint-free or otherwise.
3. If exposed to light for an appreciable time, the images will be affected. Be sure to work briskly.

Reference:

If the photosensitive drum is exposed to light of 1500 lux (ordinary lighting) for 5 min and then is left alone for 5 min in a dark place, it will recover to a level at which it will cause no practical problem.

However, avoid exposing it to direct sunlight. The rays of the sun are usually about 10000 to 30000 lux.

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B. Transfer Charging Assembly

1. Removing the Transfer Charging Roller

1) Open the machine's top unit.
2) Remove the screw [1].
3) While freeing the claw [2] of the bushing, detach the transfer charging roller [3].

Caution:

Do not touch the surface of the roller. Be sure the surface is free of dirt.

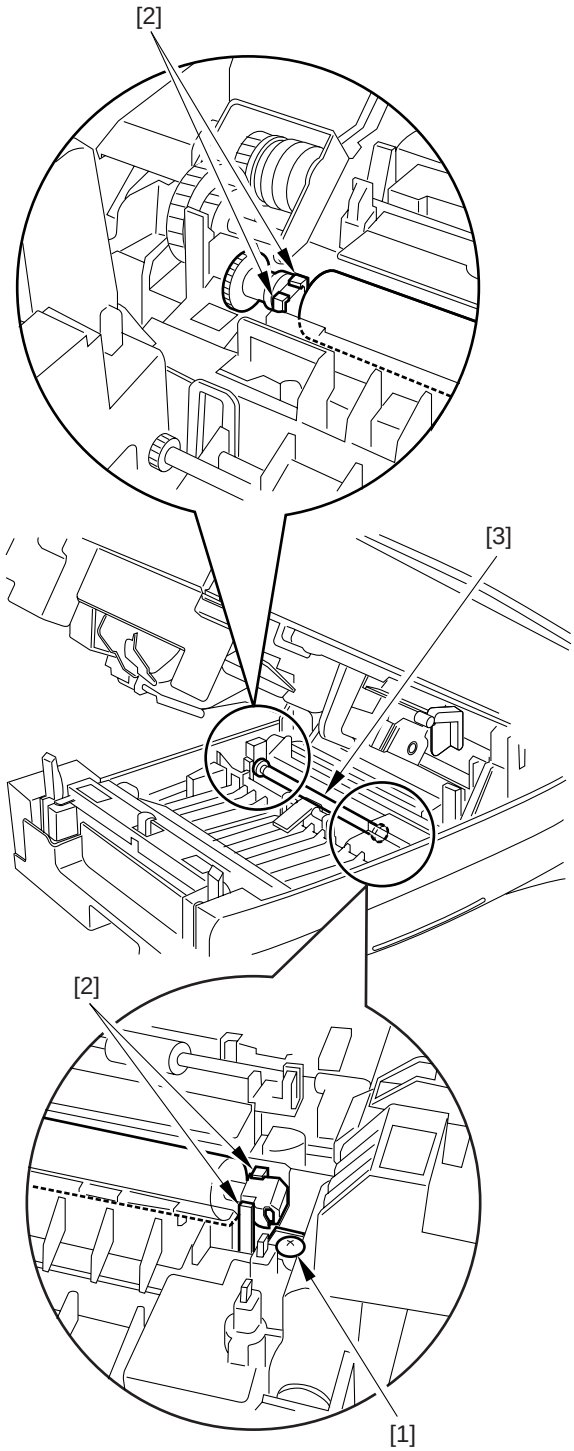

Figure 4-202

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C. Blank Exposure

1. Removing the Blanking Exposure Unit

1) Set the machine to the maximum ratio (141%) as follows:
   - Turn on the power, and select a default ratio of 141%.
   - Press the Copy Start key.
   - When the lens has moved to the farthest left, turn off the power.
   - Disconnect the power plug.
2) Remove the front lower cover.
   (See Chapter 7.Ⅲ.A.2.“Removing the Front Lower Cover.”)
3) Remove the cartridge.
4) Remove the DC controller PCB.
   (See Chapter 7.Ⅲ.E.1.“Removing the DC controller PCB.”)
5) Remove the composite power supply PCB.
   (See Chapter 7.Ⅲ.E.2.“Removing the Composite Power Supply PCB.”)
6) Remove the two screws [1].

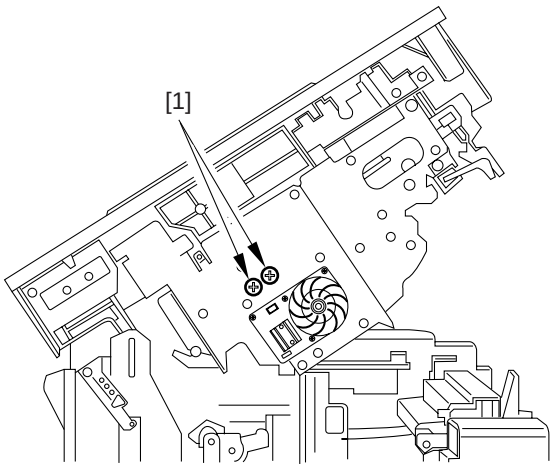

Figure 4-203

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7) Open the machine's top unit farther, and hold it in place using the handle of a screwdriver (about 30 mm in diameter).

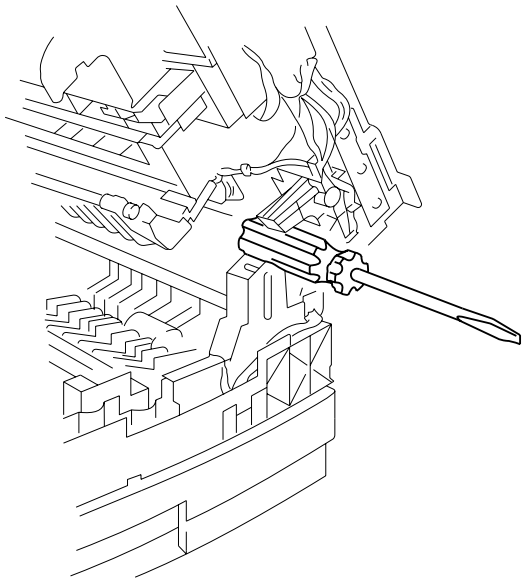

Figure 4-204

8) Remove the four screws [3], and disconnect the connector [4]; then, detach the blanking exposure unit. [5].

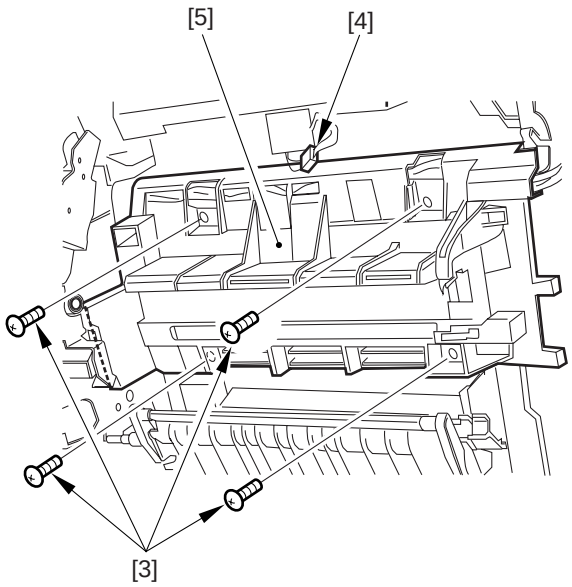

Figure 4-205

Caution:

When mounting the blanking exposure unit, check to make sure that the blanking exposure unit PCBs are at the extreme ends and that the lens is positioned at the farthest left (141% position).

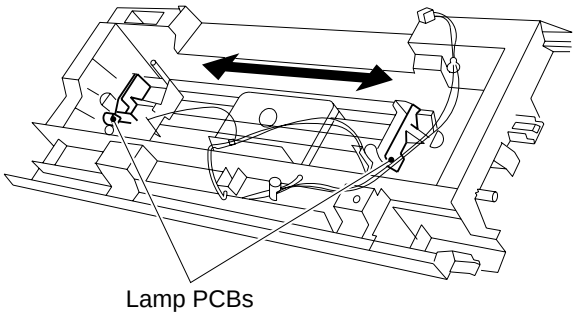

Figure 4-206

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CHAPTER 5

PICK-UP/FEEDING SYSTEM

This chapter explains the principles used from when copy paper is picked up to when a copy is delivered in view of the functions of electrical and mechanical units and in relation to their timing of operation. It also shows how these units may be disassembled/assembled and adjusted.

I. PICKUP/FEEDING SYSTEM 5-1
- A. Outline 5-1
- B. Controlling the Pickup Roller 5-3
- C. Controlling the Movement of Paper 5-9
- D. Detecting Jams 5-12

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- B. Multifeeder Assembly 5-28
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- F. Delivery Assembly 5-36

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I. PICKUP/FEEDING SYSTEM

A. Outline

The machine moves paper using a center reference method, in which paper is moved in the middle of the pickup/feeding path, and is equipped with a cassette, multifeeder, and single-feeder as the source of paper.

From the cassette, multifeeder, or single-feeder, copy paper is picked up and is controlled by the registration roller so that its leading edge will match the leading edge of the image on the photosensitive drum; it is then moved through the transfer, separation, feeding, and fixing assemblies to reach the copy tray.

The machine is equipped with four sensors used to monitor the movement of copy paper.

Notation	Name	Remarks
PS3	Delivery sensor	
PS4	Vertical path roller paper sensor	
PS5	Single-feeder paper sensor	Single-feeder model only
Q751	Pre-registration roller paper sensor	

Table 5-101

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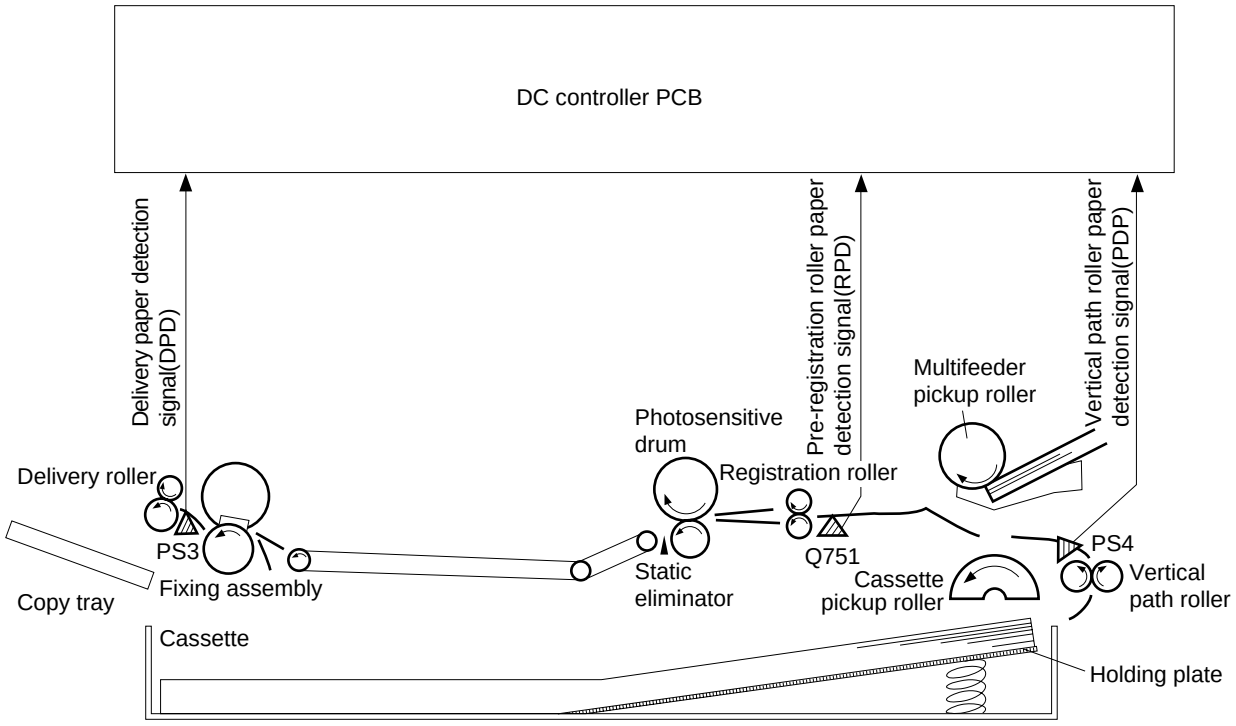

Figure 5-101 (Multifeeder type)

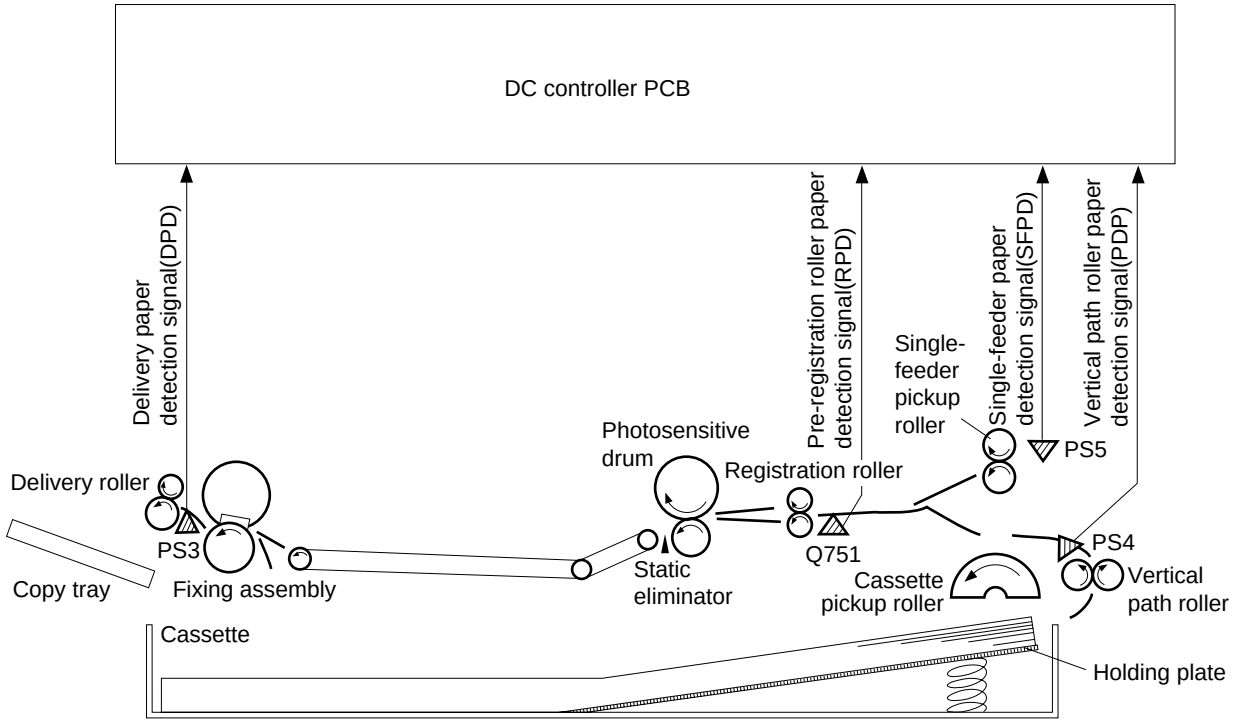

Figure 5-102 (Single-feeder type)

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B. Controlling the Pickup Roller

1. Outline

The machine has three types of pickup rollers, i.e., cassette pickup roller, multifeeder pickup roller, and single-feeder pickup roller, and each of these rollers are operated by the drive of the main motor switched by means of a gear unit. (In other words, only one roller is driven at any one time.)

2. Controlling the Cassette Pickup Roller

The cassette pickup roller is controlled by a spring clutch, control ring, pickup clutch solenoid (SL1), and cassette pickup solenoid (SL5).

When the pickup clutch solenoid turns on, the claw moves away from the control ring, allowing the drive to move to the pickup gear assembly through the spring clutch. Then, when the cassette pickup solenoid turns on, the drive reaches the cassette pickup roller.

When the cassette pickup roller starts to rotate, copy paper is picked up from the cassette and is sent as far as the registration roller by way of the vertical path roller. The registration roller controls paper so that its leading edge will match the leading edge of the image on the photosensitive drum.

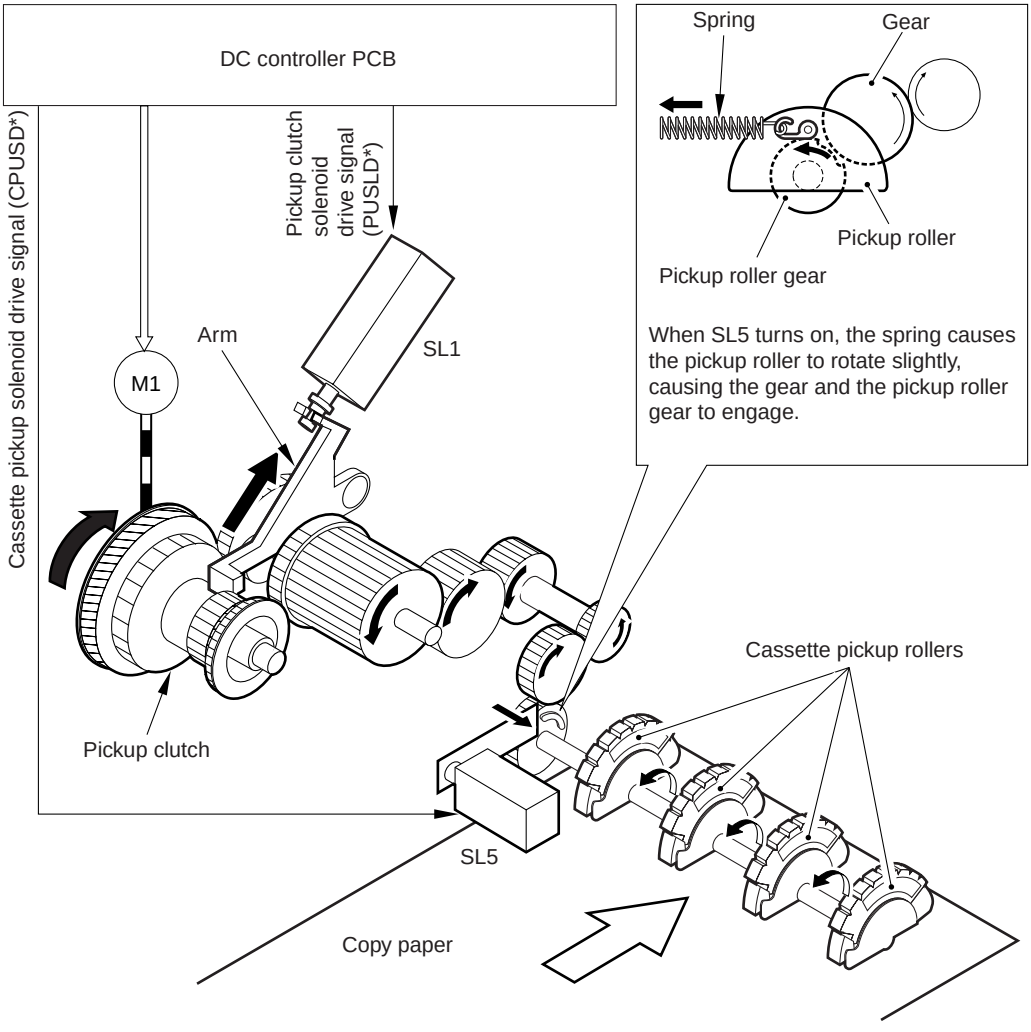

Figure 5-103 (Multifeeder type)

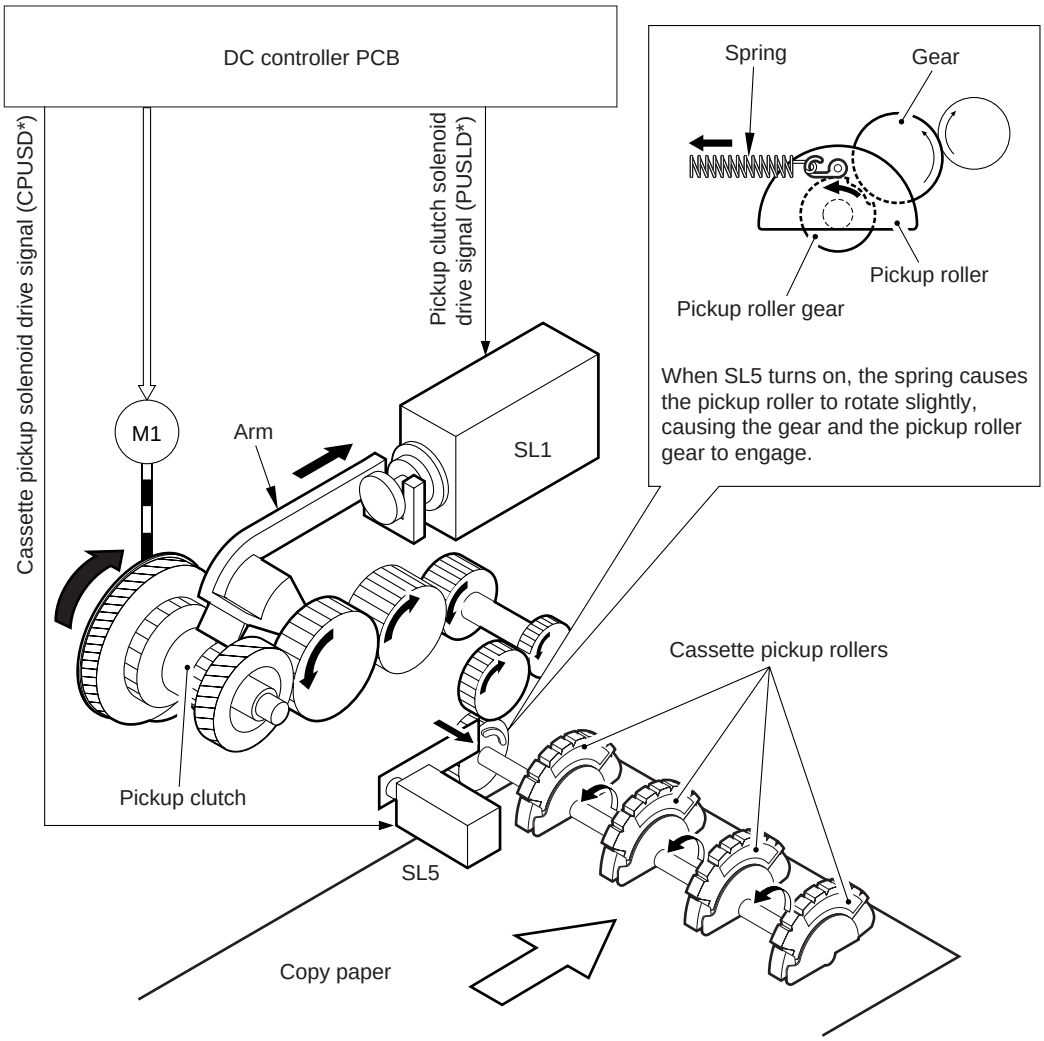

Figure 5-104 (Single-feeder type)

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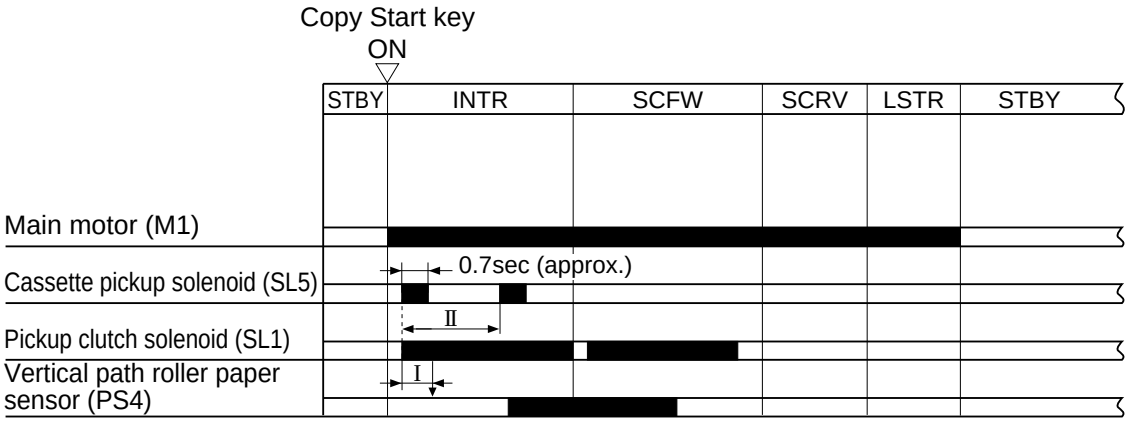
3. Re-Pickup (cassette pickup)

If the vertical path roller paper sensor (PS4) does not detect copy paper within a specific period of time after the cassette pickup roller has started to rotate, the pickup roller is rotated once again to execute pickup operation, thereby ensuring correct pickup (as for recycled paper).

If the vertical path roller paper sensor does not detect copy paper after re-pickup, the machine will assume the absence of copy paper and will indicate "E" in the count/ratio indicator in the control panel. (This mechanism substitutes a paper detecting mechanism.)



I : Re-pickup operation is executed if the vertical path roller paper sensor (PS4) does not detect copy paper within 0.5 sec after the pickup clutch solenoid (SL1) has turned don.

II : The cassette pickup solenoid (SL5) turns on once again about 1.3 sec after the pickup clutch solenoid (SL1) turns on.

Figure 5-105

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4. Controlling the Multifeeder Pickup Roller

The multifeeder pickup roller is controlled by a spring clutch, control ring, pickup clutch solenoid (SL1), gear unit, and multifeeder pickup solenoid (SL4).

When the multifeeder pickup solenoid (SL4) turns on, the drive of the main motor (M1) reaches the cam gear. When the cam gear starts to rotate in response, the lifter, which is in contact with the cam, moves up the gear unit and, at the same time, pushes down the paper guide plate. The cam gear makes a 180° turn (approximate), and stops at the toothless section.

When the pickup solenoid turns on in this condition, the claw leaves the control ring, and the drive of the main motor (M1) reaches the multifeeder pickup roller.

When the multifeeder pickup roller rotates, paper is picked up and sent as far as the registration roller, which controls the paper so that its leading edge will match the leading edge of the image on the photosensitive drum.

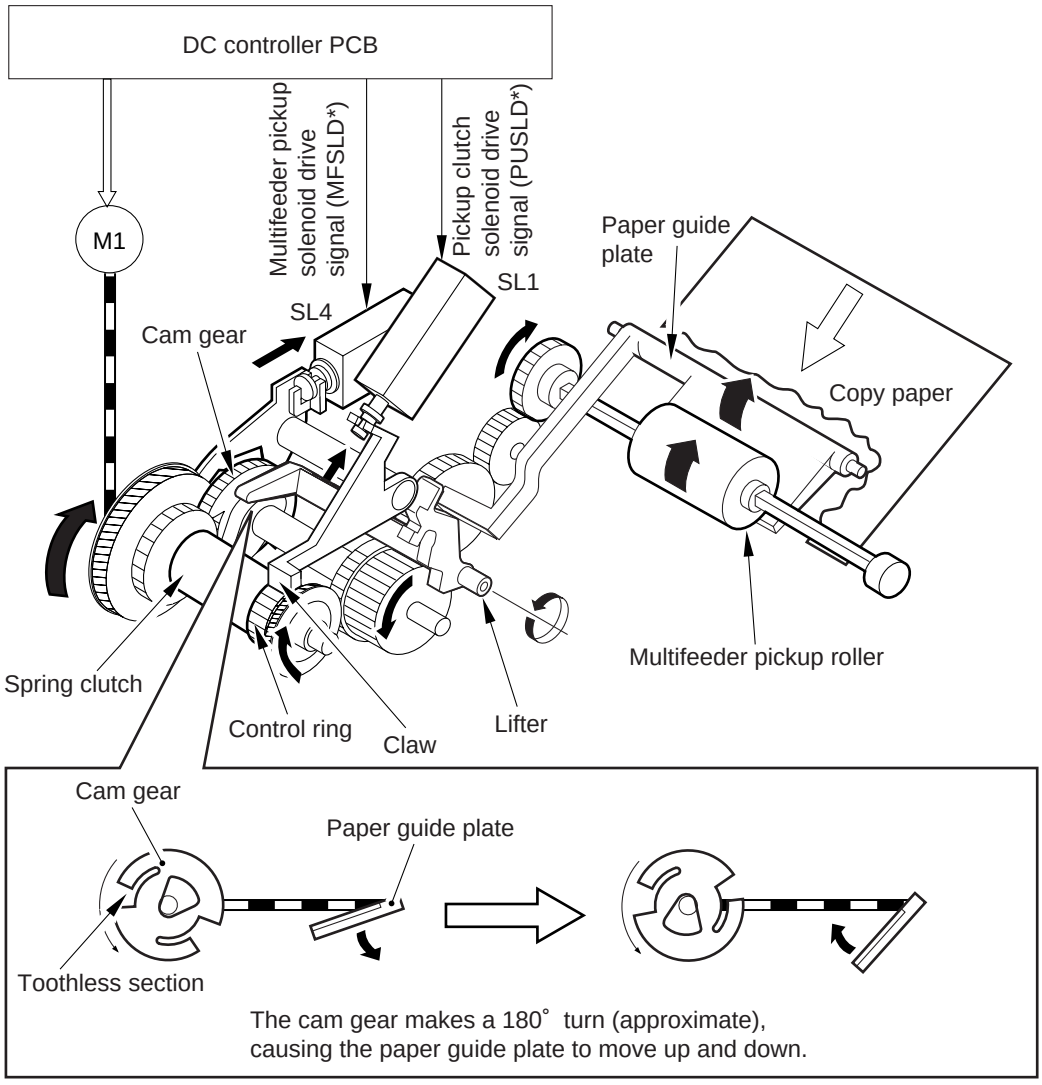

Figure 5-106

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5. Controlling the Single-feeder Pickup Roller

The single-feeder pickup roller is controlled by the pickup clutch solenoid (SL1) and the single-feeder paper sensor (PS5).

When copy paper is inserted into the single-feeder, the single-feeder paper sensor turns on and the main motor starts to rotate. The drive of the main motor reaches the signal feeder pickup roller through a gear.

When the single-feeder pickup roller starts to rotate, copy paper is picked up from the signal feeder and is sent as far as the registration roller, which controls the paper so that its leading edge will match the leading edge of the image on the photosensitive drum.

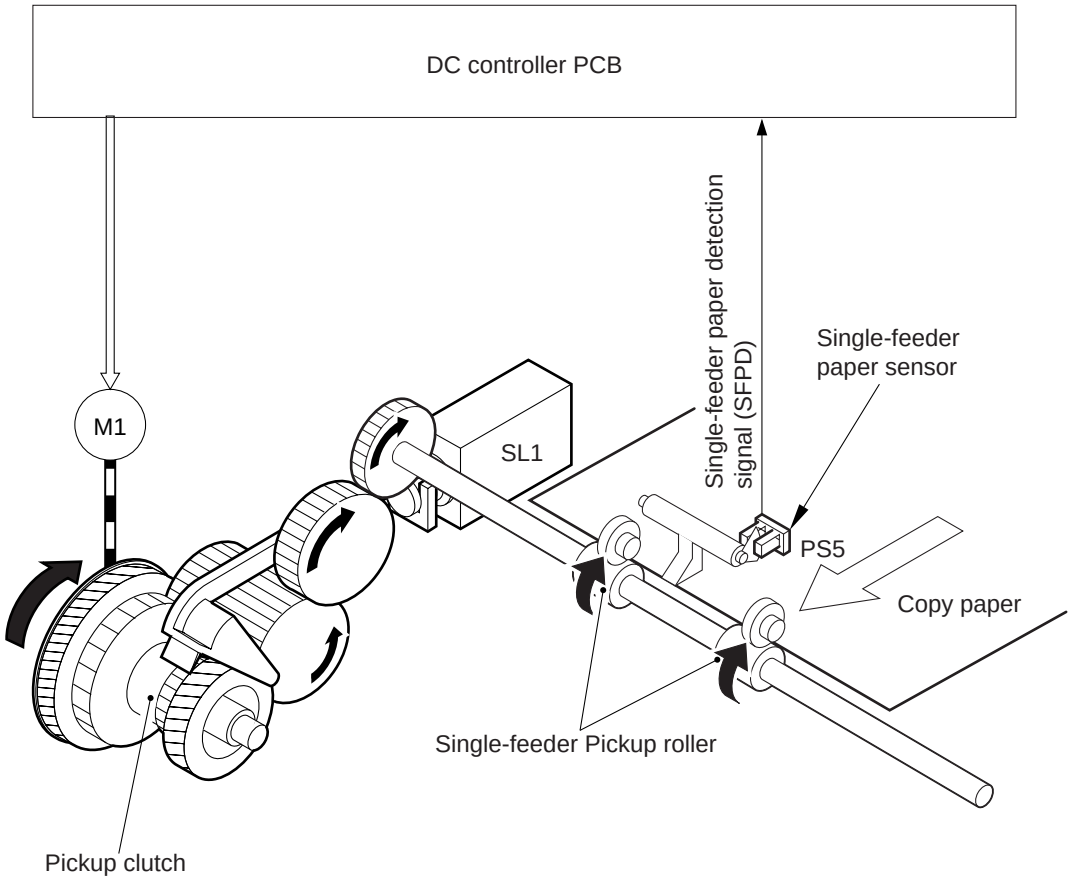

Figure 5-107

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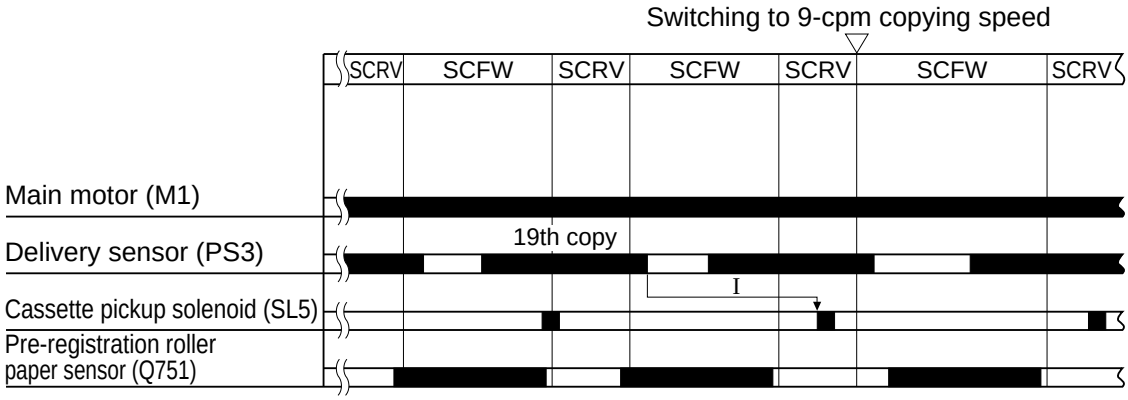
6. Controlling the Copying Speed in Multifeeder Mode

The machine does not possess a copy paper width detecting function and, therefore, the temperature of the ends of the fixing assembly increases when copies are made continuously on paper narrower than A4/LTR.

When the multifeeder is used for continuous copying, a delay is initiated after picking up the 19th sheet so as to increase the sheet-to-sheet distance for the sheets that follow, controlling the copying speed to 9 cpm.

If the copying speed is controlled (to 6 cpm) by a mechanism to prevent overheating of the copyboard, this control will not be executed, and moreover if the temperature of the copyboard increases during 9-cpm control, 6-cpm control will be initiated.



I: A switch to 9-cpm copying mode is made after delivering the 19th copy in a continuous copying job.

Figure 5-108

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C. Controlling the Movement of Paper

1. Controlling the Registration Roller

The registration roller is controlled by a spring clutch, control ring, pre-registration roller paper sensor (Q751), and registration clutch solenoid (SL2).

The microprocessor on the DC controller PCB turns on the registration clutch solenoid at a specific timing in response to the paper detection signal from the pre-registration roller paper sensor. When the registration clutch solenoid turns on, the claw will leave the control ring, and the drive of the main motor will reach the registration roller to move the copy paper to the photosensitive drum.

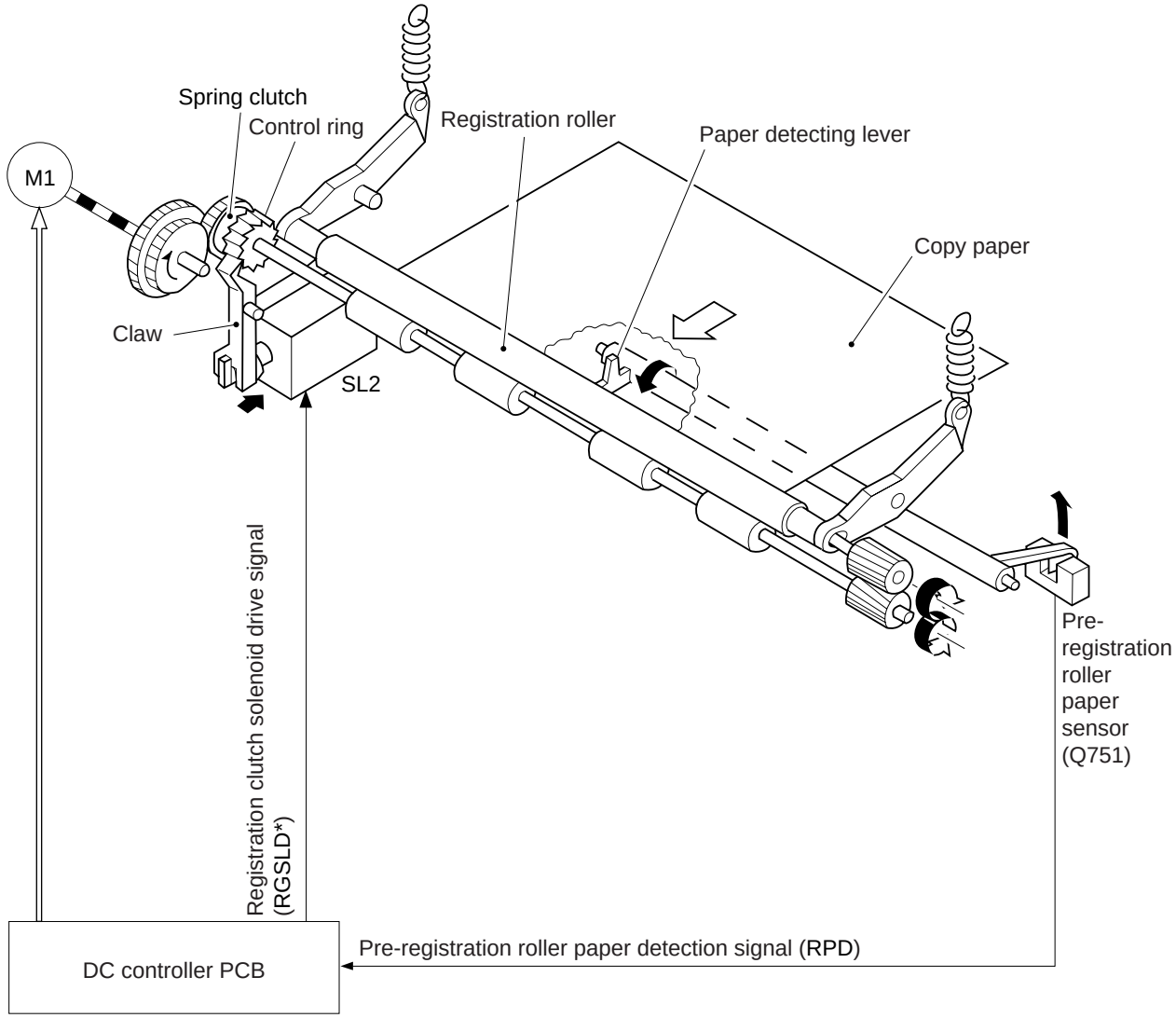

Figure 5-109

2. Pickup/Feeding Timing Chart

a. Pickup from the Cassette (A4, 2 copies)

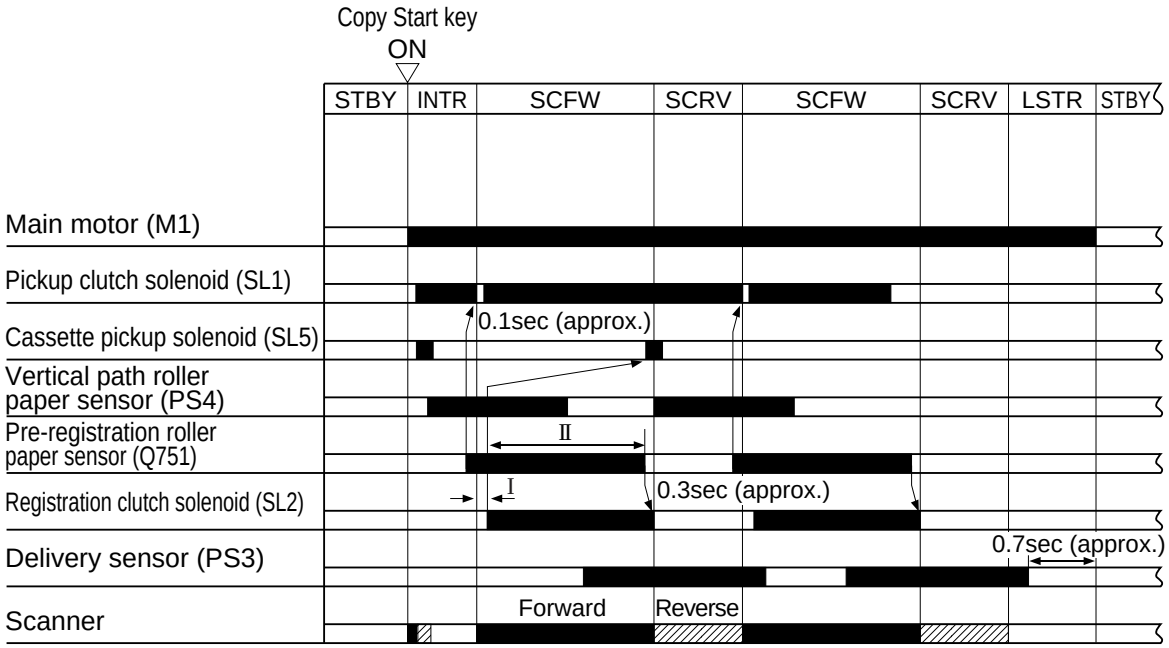

Figure 5-110

b. Pickup from the Single-feeder (A4, 1 copy)

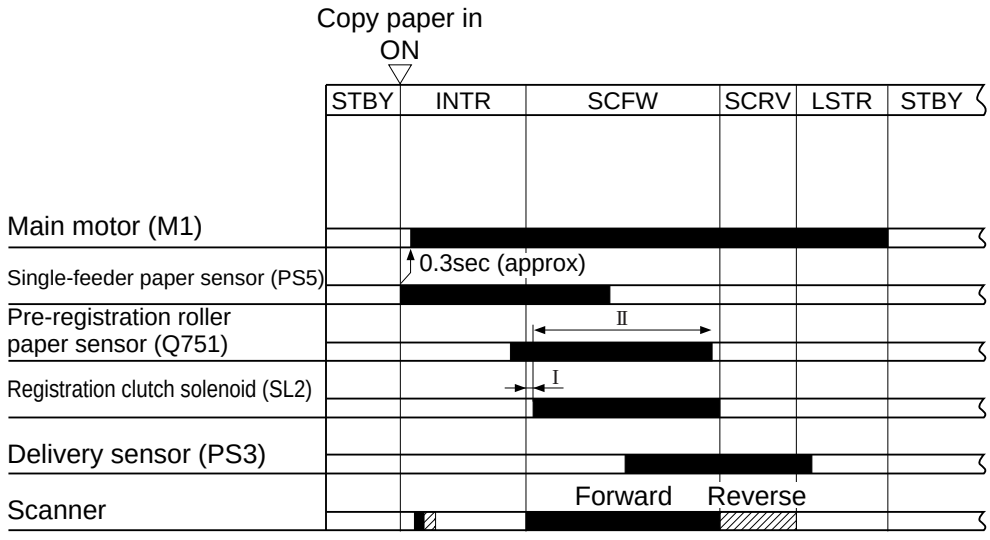

Figure 5-111

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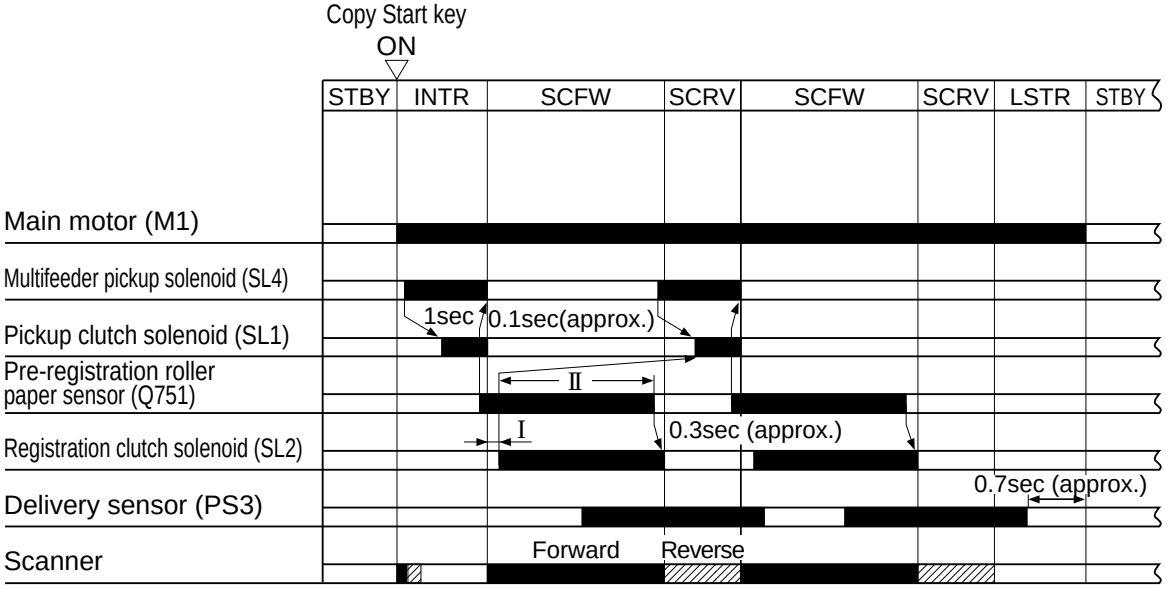
c. Pickup from the Multifeeder (A4, 2 copies)



I : Varied by value under '30' of service mode (registration adjustment).

II : Used for measuring the length of copy paper.
length of copy paper (mm) = 96 (mm/s) × II (s) + 11 (mm) -10 (mm)
96 (mm/s) : speed at which copy paper is moved.
11 (mm) : distance between pre-registration roller paper sensor and registration roller.
10 (mm) : length of actuator of the pre-registration roller paper sensor.

Figure 5-112

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D. Detecting Jams

The machine is equipped with four paper sensors used to find out the presence/absence of copy paper and whether copy paper is moving properly.

- Vertical path roller paper sensor (PS4)
- Single-feeder paper sensor (PS5)
- Pre-registration roller paper sensor (Q751)
- Delivery sensor (PS3)

The presence/absence of a jam is checked with reference to the presence/absence of paper over a specific sensor at such times as programmed in the microprocessor.

The machine is not equipped with a function which remembers the remaining number of copies to make at time of a jam and the selected copying mode; in other words, it will be reset to standard mode when it is opened and closed for the removal of the jam.

The microprocessor possesses the following eight types of no paper/jam detection sequence; if any of its sensors detects copy paper at power-on, the machine will identify the condition as a jam.

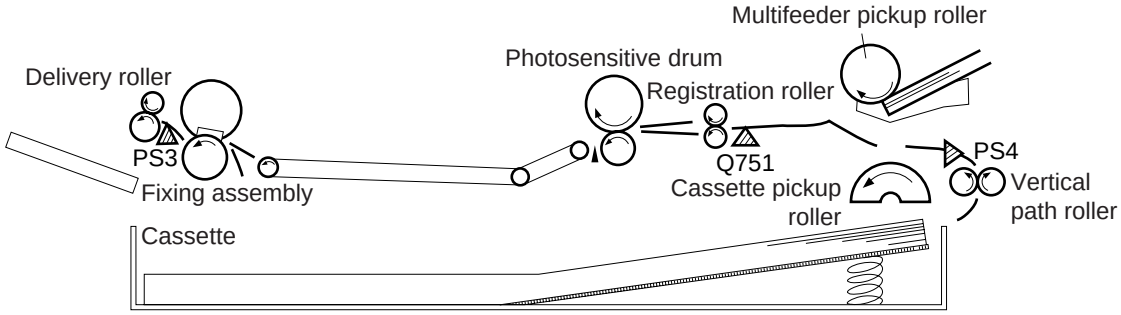

Figure 5-113 (Multifeeder type)

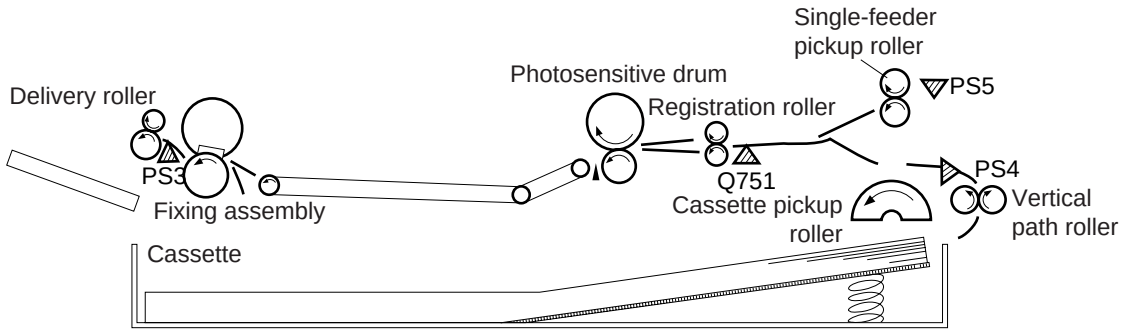

Figure 5-114 (Single-feeder type)

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1. Multifeeder Pickup Assembly (no paper, pickup delay jam)

If copy paper does not reach the pre-registration roller paper sensor within a specific period of time in multifeeder mode, the condition will be identified as the absence of paper; the machine will stop the main motor in about 1.5 sec, and indicate the Add Paper message.

If the pre-registration roller paper sensor detects copy paper during this 1.5 sec period (approximate), the machine will identify the condition as a pickup delay jam, and flash the Jam indicator.

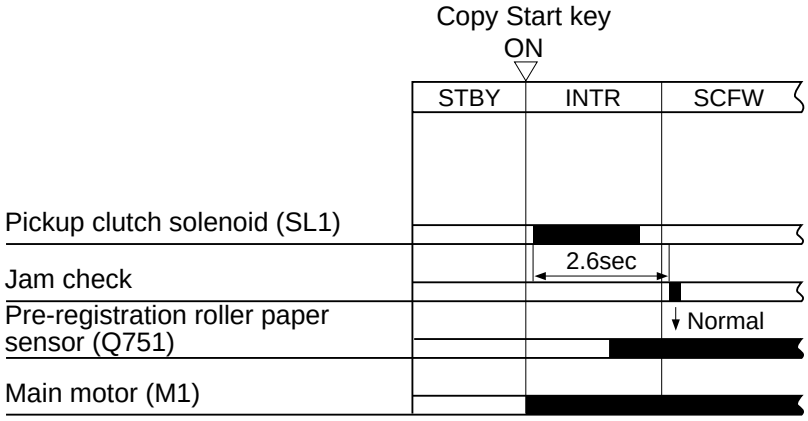

Figure 5-115 (normal)

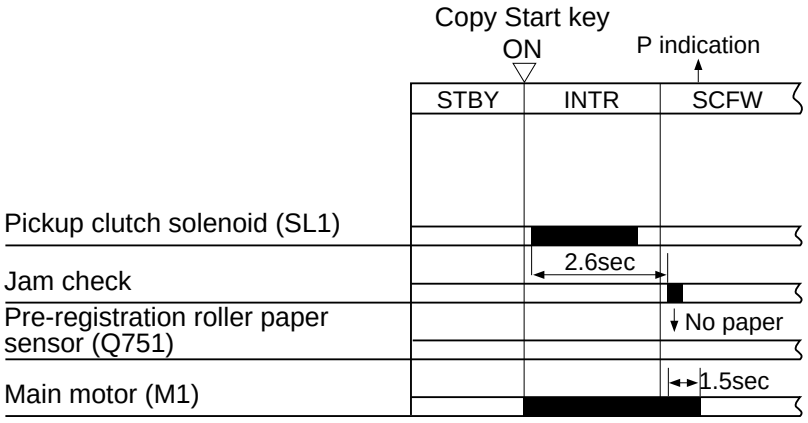

Figure 5-116 (no paper)

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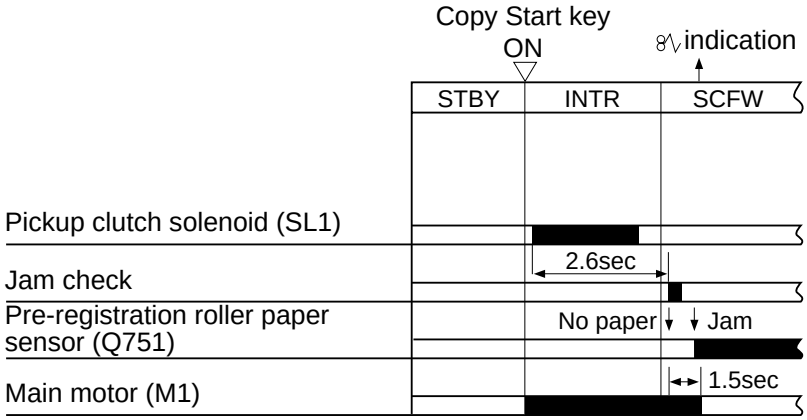

Figure 5-117 (jam)

2. Absence of Paper in the Cassette Pickup Assembly

When re-pickup operation is executed (from the cassette) , the absence of paper will be identified if copy paper doesnot reach the vertical path roller paper sensor within a specific period of time. In responce, the machine will stop the main motor in about 1.5 sec, and indicate the Add Paper message.

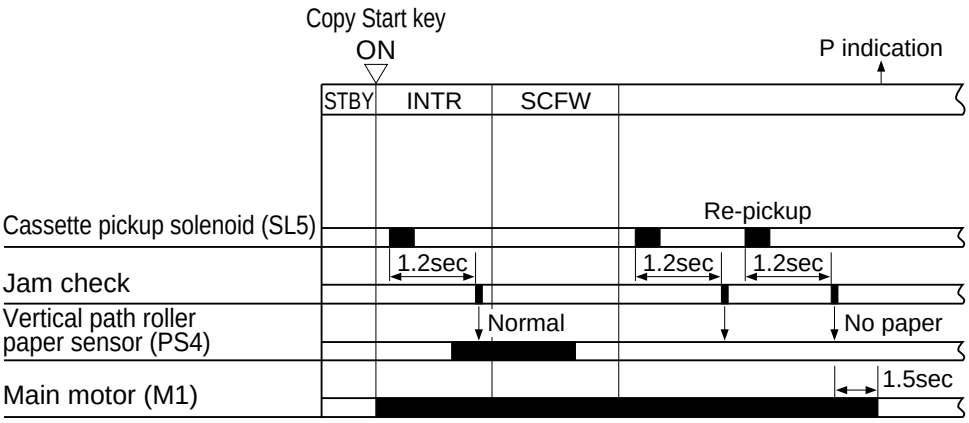

Figure 5-118

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3. Single-feeder Pickup Delay Jam

After being detected by the single-feeder paper sensor, if copy paper does not reach the pre-registration roller sensor within a specific period of time, the machine will identify the condition as a single feed pickup delay jam, stop the operation immediately, and flash the Jam indicator.

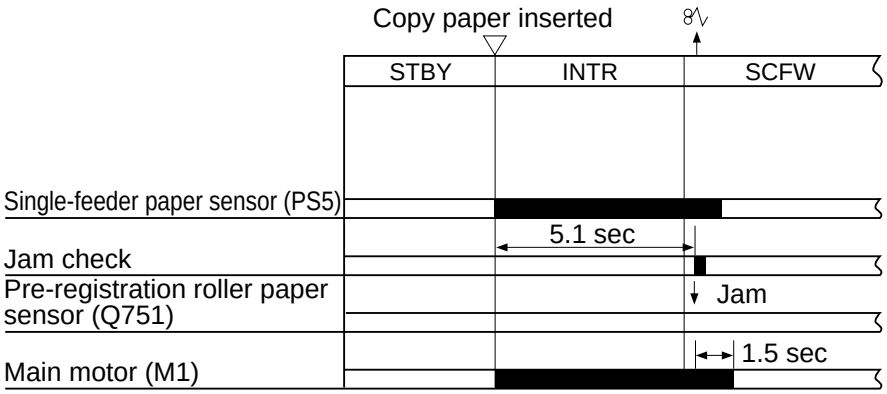

Figure 5-119

4. Vertical Path Stationary Jam

If copy paper fails to move past the vertical path roller paper sensor within a specific period of time because of faulty feeding, the machine will identify the condition as a vertical path stationary jam, stop the operation, and flash the Jam indicator.

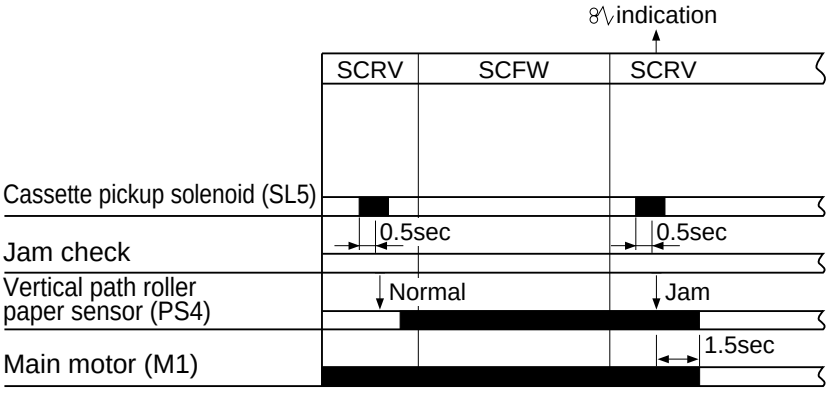

Figure 5-120

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5. Registration Paper Delay Jam

After reaching the vertical path roller paper sensor, if copy paper fails to reach the pre-registration roller paper sensor within a specific period of time, the machine will identify the condition as a registration paper delay jam, stop the operation immediately, and flash the Jam indicator.

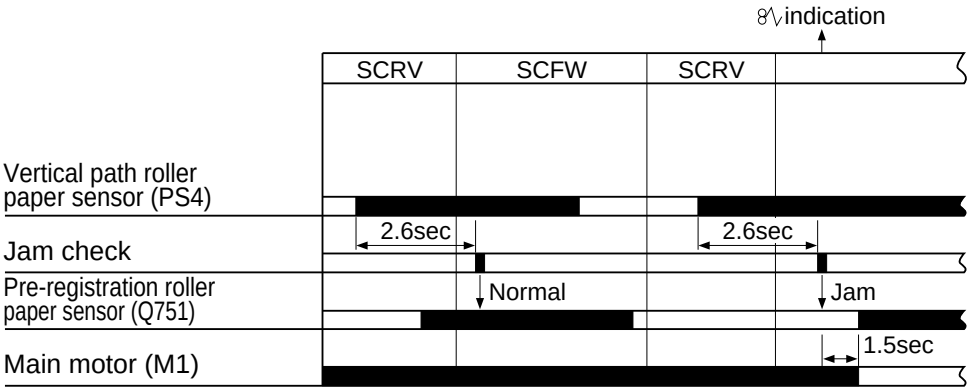

Figure 5-121

6. Registration Paper Stationary Jam

If copy paper does not move past the pre-registration roller paper sensor within a specific period of time because of feeding faults, the machine will identify the condition as a registration paper stationary jam, stop the operation immediately, and flash the Jam indicator.

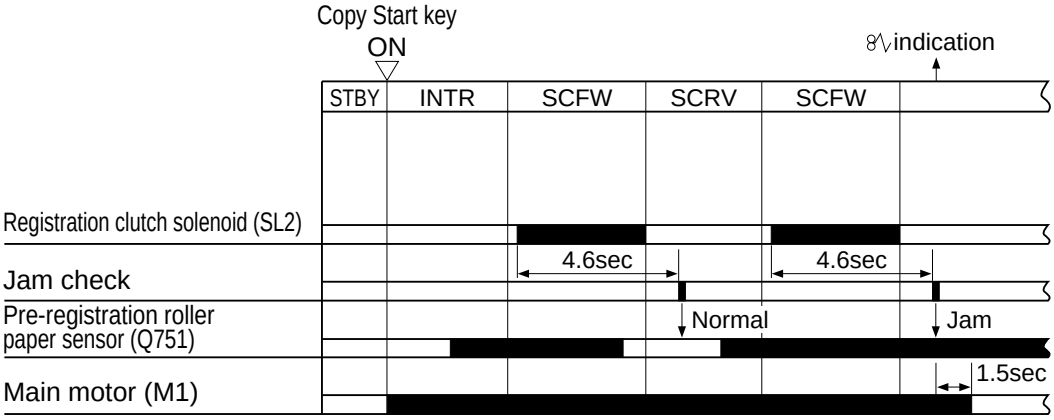

Figure 5-122

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7. Delivery Delay Jam

If copy paper does not reach the delivery sensor within a specific period of time because of feeding faults, the machine will identify the condition as a delivery delay jam, stop the operation immediately, and flash the Jam indicator.

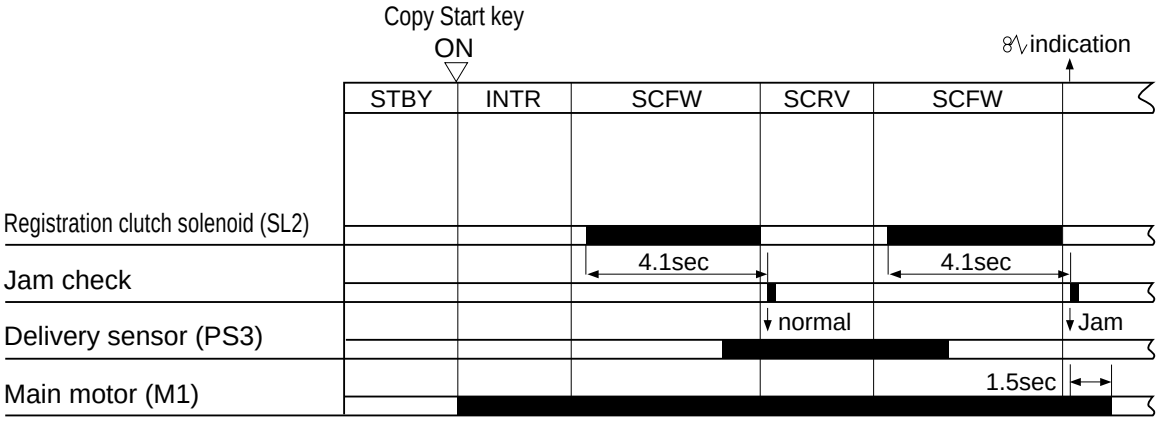

Figure 5-123

8. Delivery Stationary Jam

If copy paper does not move past the delivery sensor within a specific period of time because of feeding faults, the machine will identify the condition as a delivery stationary jam, stop the operation immediately, and flash the Jam indicator.

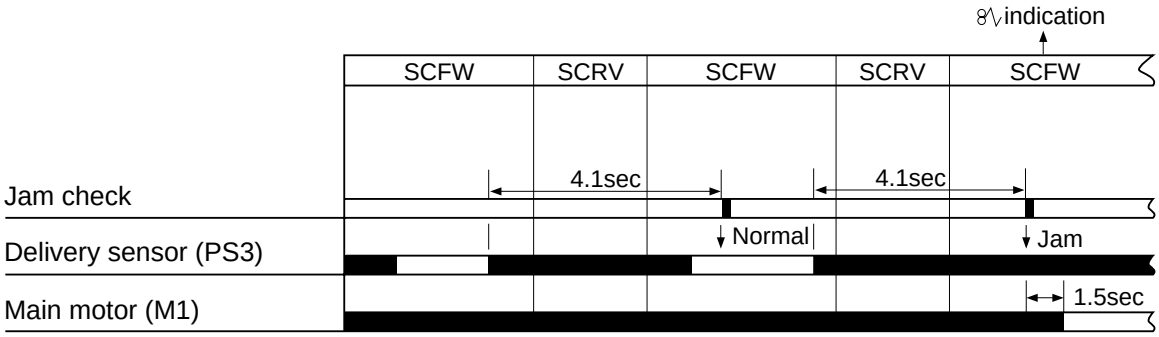

Figure 5-124

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II. DISASSEMBLY/ASSEMBLY

As needed, disassemble/assemble the machine with the following in mind:

1. ⚠ Before starting the work, turn off the power switch and disconnect the power plug for safety.
2. Unless otherwise instructed, assemble the parts by reversing the steps used to disassemble it.
3. Identify the screws by type (length, diameter) and location.
4. Use the washers where necessary. (The screws used to mount the grounding wire and Varistors come with a washer to ensure electrical continuity.)
5. As necessary, cut the harnessband.
6. As a rule, do not operate the machine with any of its part removed.
7. A few of the screws used are special screws (with wider thread intervals). Do not use any screws indiscriminately.

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A. Pickup Assembly

1. Removing the Pickup Roller

1) Pull out the cassette.
2) Remove the front lower cover.
   (See Chapter 7.Ⅲ.A.2.“Removing the Front Lower Cover.”)
3) Open the machines' top unit farther, and hold it in place with the handle of a screwdriver (about 30 mm in diameter).

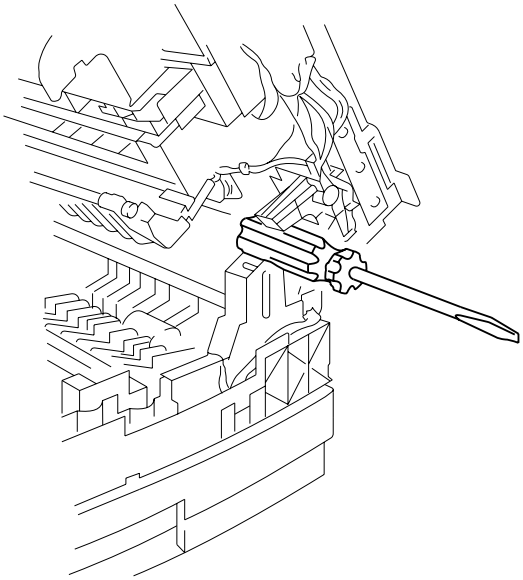

Figure 5-201

4) Remove the screw [1], and free the two claws [2]; then, detach the feeding assembly cover [3].

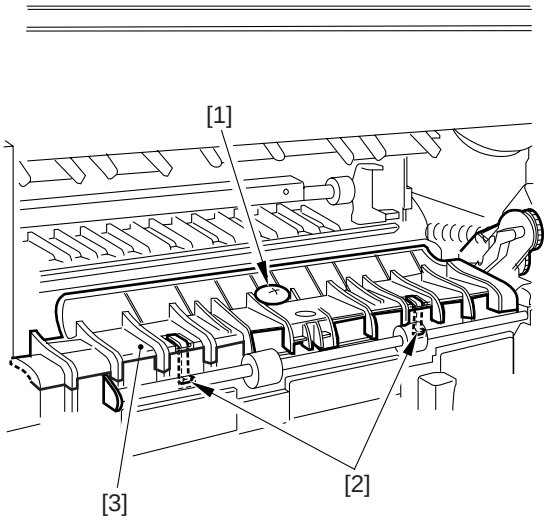

Figure 5-202

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5) While pulling the guide plate [4] of the cassette pickup solenoid in the direction of the arrow, turn the gear [5] slightly in the direction of the arrow to disengage the guide plate [4] and the gear [6].

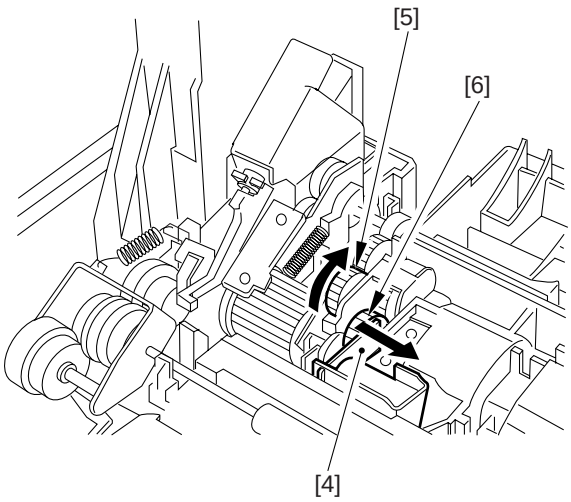

Figure 5-203

6) While pulling the plunger [7] of the pickup solenoid, turn the gear [8] in the direction of the arrow so that the pickup roller [9] is oriented as shown.

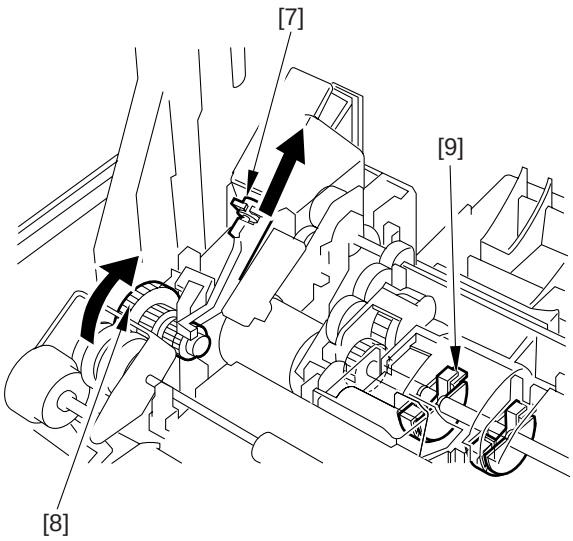

Figure 5-204

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7) Using a hex wrench or the like, push the hook [10] of the pickup roller through the hole to remove the pickup roller [11].

Caution:
When removing the pickup roller, be sure to push the claw while holding the shaft in place so as to prevent the pickup roller shaft from freeing itself.

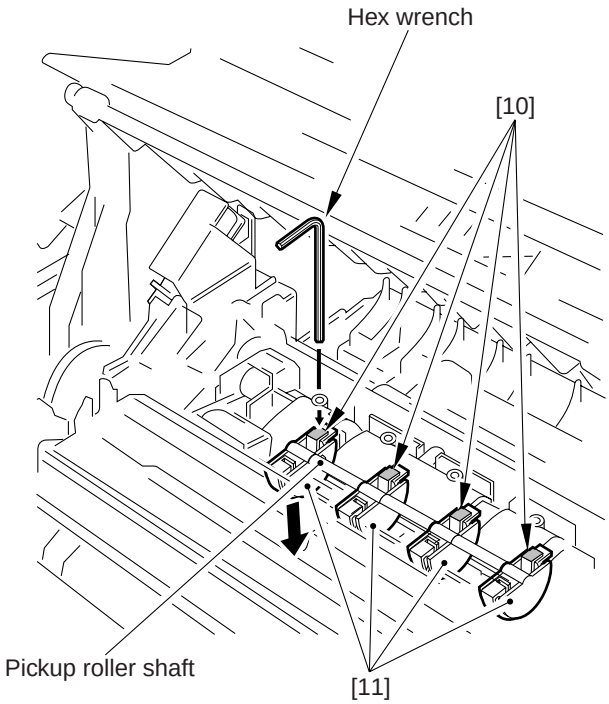

Figure 5-205

Caution:
When mounting the multifeeder unit, perform the next steps first:
1) Turn on the power switch; then, select the multifeeder, and press the Copy Start key.
2) When the pickup gear unit has moved up as far as it can, turn off the power switch.
3) Mount the multifeeder; then, make a copy using the multifeeder.

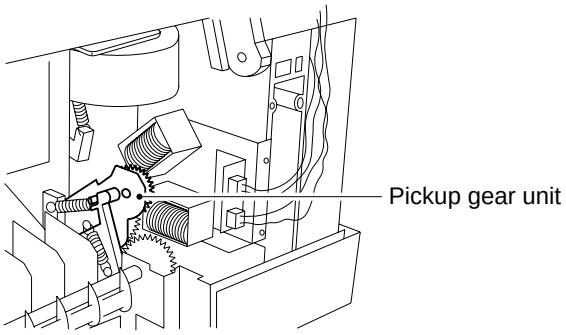

Figure 5-206

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2. Removing the Pickup Clutch

2.1 Removing the Pickup Clutch (single-feeder type)

1) Remove the front lower cover.
(See Chapter 7.Ⅲ.A.2.“Removing the Front Lower Cover.”)
2) Remove the registration roller unit.
(See E.1.“Removing the Registration Roller Unit.”)
3) Open the machine’s top unit, and hold it in place using the handle of a screwdriver (about 30 mm in diameter).

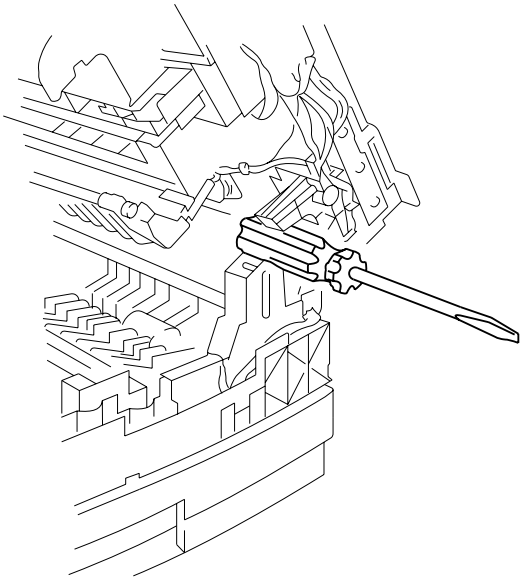

Figure 5-207

4) Disconnect the connector [1], and remove the screw [2]; then, detach the solenoid unit [3].

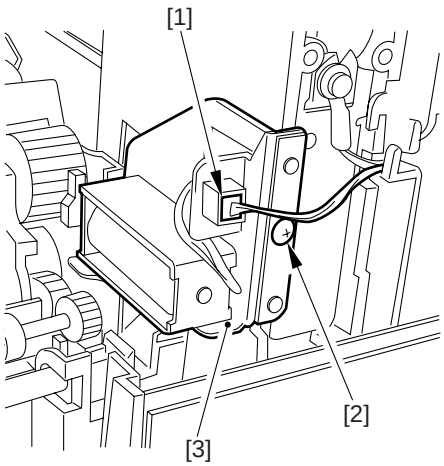

Figure 5-208

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5) Remove the screw [4] and the two claws [5], and detach the gear unit [6].

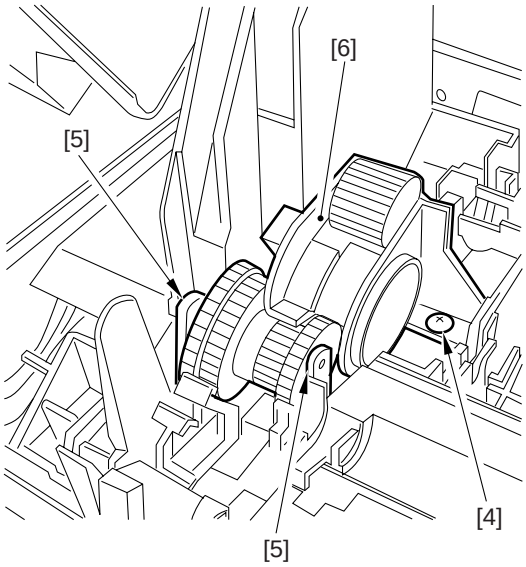

Figure 5-209

6) Free the claw [7] of the gear unit [6], and detach the clutch unit [8].

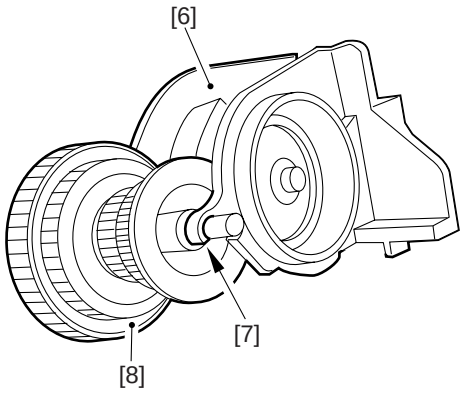

Figure 5-210

7) Remove the E-ring [9] and the washer [10], and detach the pickup clutch [11].

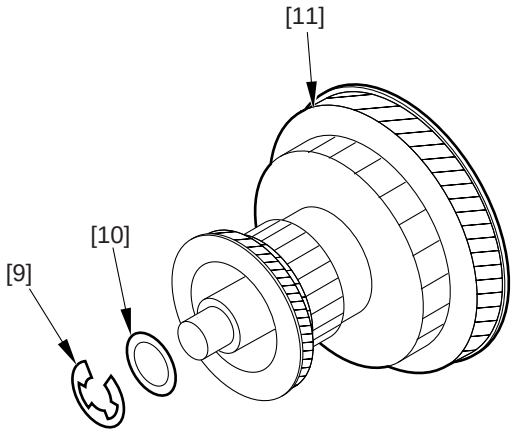

Figure 5-211

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2.2 Removing the Pickup Clutch (multifeeder type)

1) Remove the front lower cover. (See Chapter 7.Ⅲ.A.2.“Removing the Front Lower Cover.”)
2) Remove the registration roller unit. (See E.1.“Removing the Registration Roller Unit.”)
3) Open the machine’s top unit farther, and hold it in place with the handle of a screwdriver (about 30 mm in diameter).

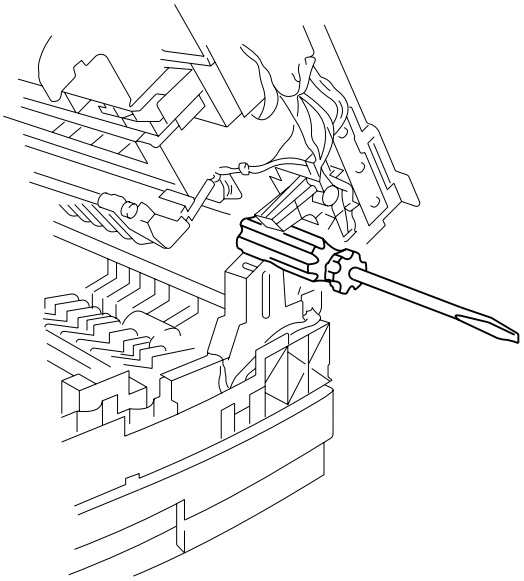

Figure 5-212

4) Disconnect the two connectors [1], and remove the two screws [2] then, detach the solenoid unit [3].

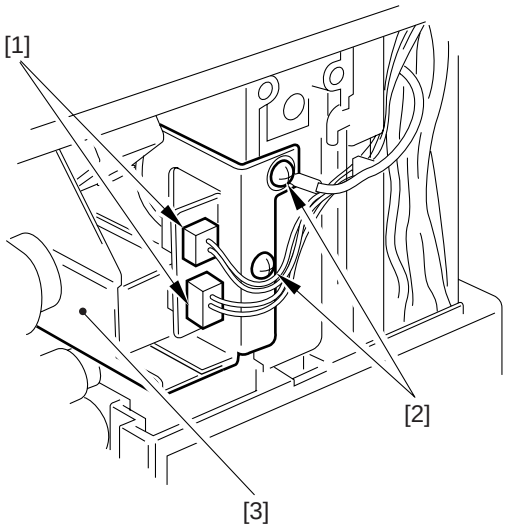

Figure 5-213

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5) While freeing the two claws [4], remove the pickup clutch unit [5].

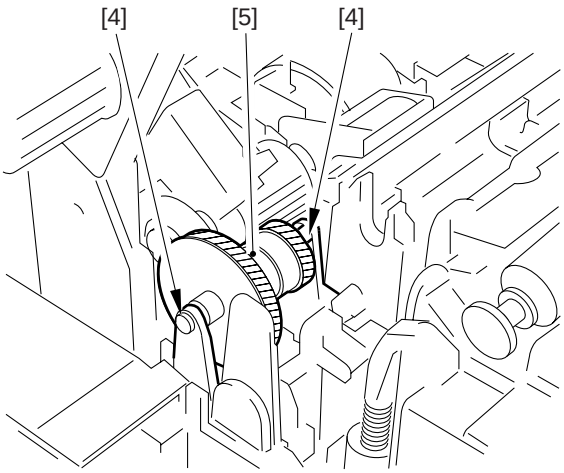

Figure 5-214

6) Remove the E-ring [6], and detach the pickup clutch [7].

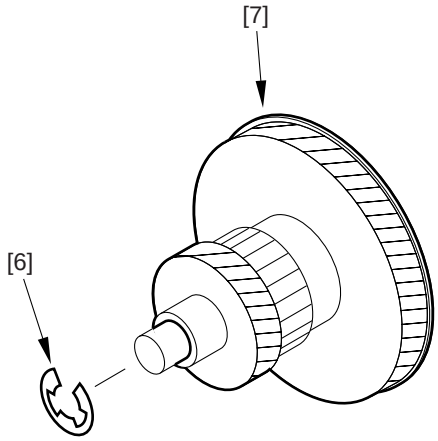

Figure 5-215

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3. Removing the Vertical Path Roller

1) Remove the front lower cover.
(See Chapter 7.Ⅲ.A.2.“Removing the Front Lower Cover.”)
2) Open the machine’s top unit farther, and hold it using the handle of a screwdriver (about 30 mm in diameter).

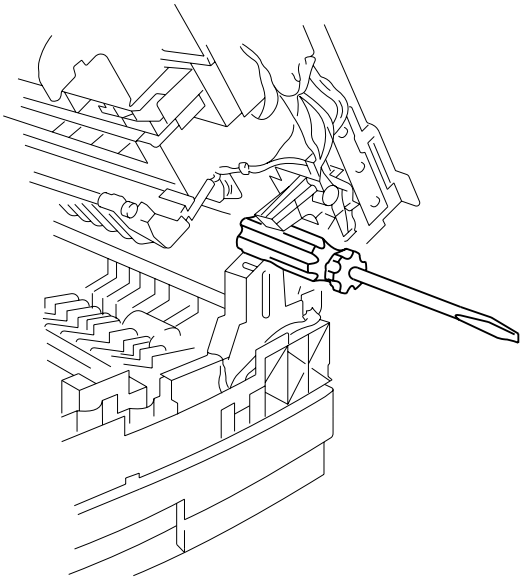

Figure 5-216

3) Remove the screw [1], and free the two claws [2]; then, detach the feeding assembly cover [3].

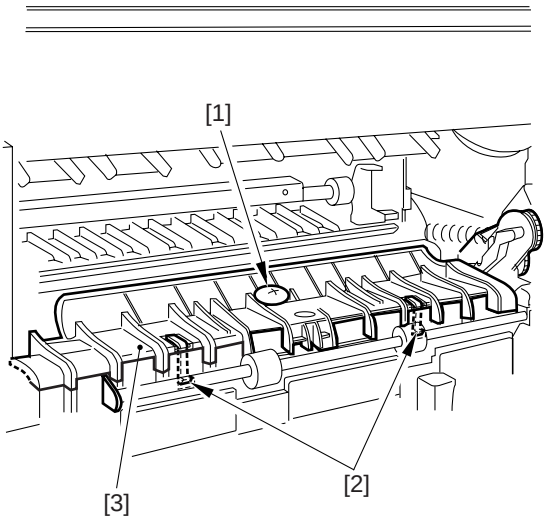

Figure 5-217

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4) While lifting the sensor lever [4], remove the vertical path roller [5].

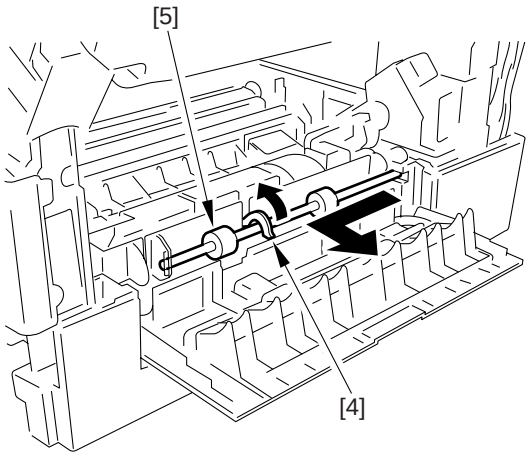

Figure 5-218

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B. Multifeeder Assembly

1. Removing the Multifeeder Unit

1) Open the right door.
2) Remove the two screws [1], and detach the multifeeder unit [2].

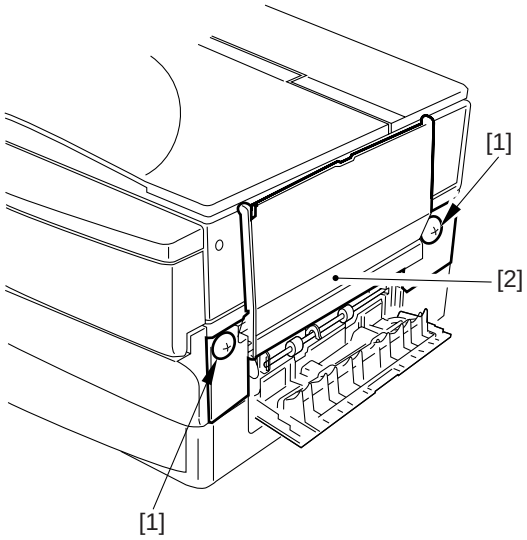

Figure 5-219

Caution:

When mounting the multifeeder unit, perform the following first:

1) Turn on the power switch; then, select the multifeeder, and press the Copy Start key.
2) When the pickup gear unit has moved as far as it can, turn off the power switch.
3) Mount the multifeeder unit; then, make a copy using the multifeeder.

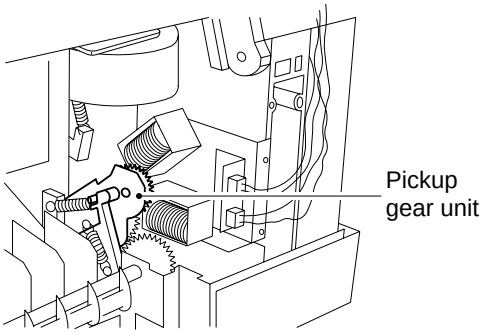

Figure 5-220

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2. Removing the Multifeeder Pickup Roller

1) Remove the multifeeder unit.
(See 1. "Removing the Multifeeder Unit.")
2) Free the claw [1], and remove the gear [2] and the bushing [3].

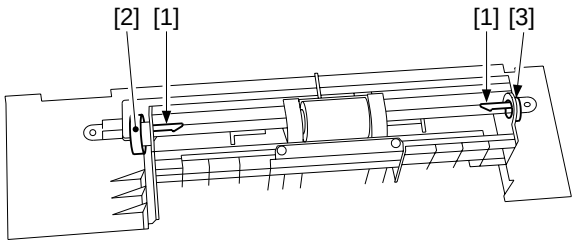

Figure 5-221

3) Remove the multifeeder pickup roller unit [4].

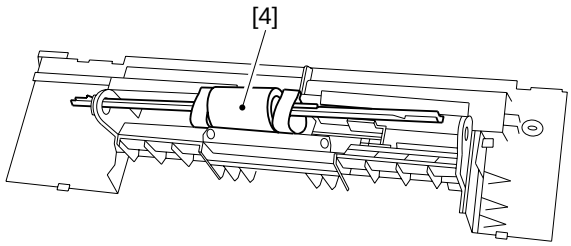

Figure 5-222

4) While freeing the claw [5], detach the multifeeder pickup roller [6].

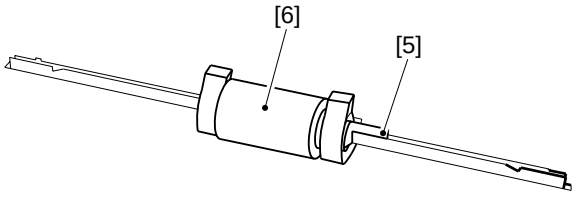

Figure 5-223

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3. Removing the Separation Pad

1) Remove the multifeeder pickup roller together with its shaft.
   (See 2. "Removing the Multifeeder Pickup Roller.")
2) Remove the multifeeder tray.
3) Slide the side guide [1] to the inside about 3 cm, and free the two claws [2]; then, detach the holding plate [3].

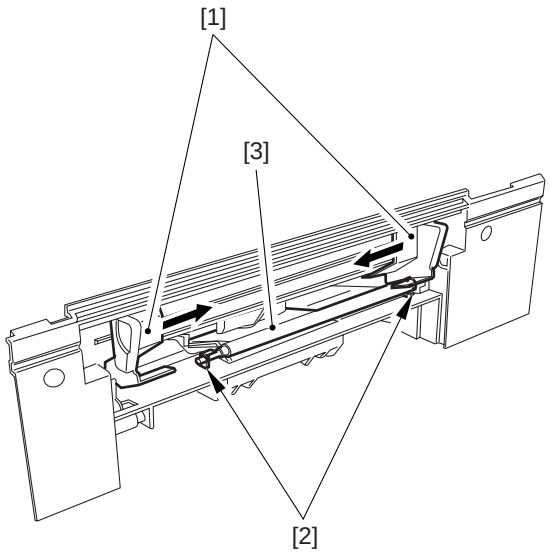

Figure 5-224

4) Push up the separation pad [4], and pull it out by pushing the shaft [5] toward the inside.

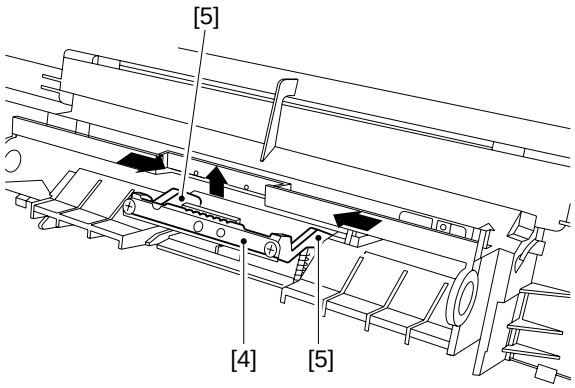

Figure 5-225

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C. Single-feeder Assembly

1. Removing the Single-feeder Unit

1) Open the right door.
2) Remove the two screws [1], and remove the single-feeder unit [2].

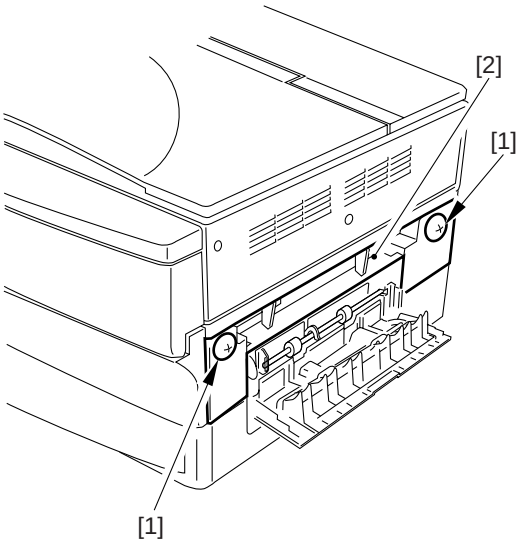

Figure 5-226

2. Removing the Single-feeder Pickup Roller

1) Remove the single-feeder unit.
(See 1. "Removing the Single-feeder Unit.")
2) Push up the stopper lever [1], and move the gear [2] of the single-feeder pickup roller assembly in the direction of the arrow.

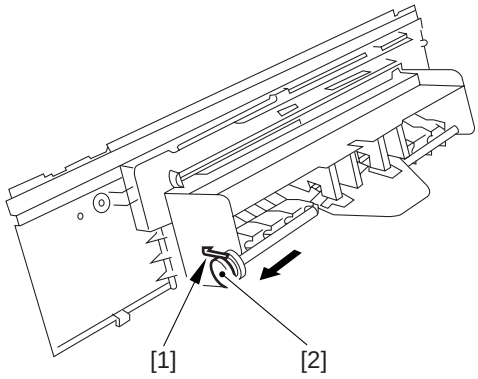

Figure 5-227

3) Remove the single-feeder pickup roller assembly [4] together with the paper guide plate [3].

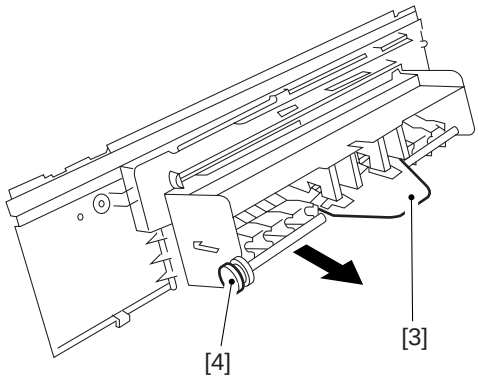

Figure 5-228

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4) Free the claw [5] of the paper guide plate [3], and remove the single-feeder pickup roller [6].

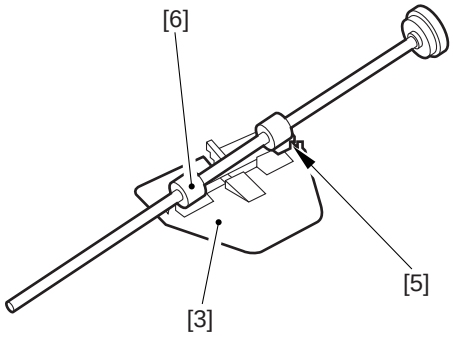

Figure 5-229

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D. Feeding Assembly

1. Detaching the Feed Belt

1) Open the machine's top unit.
2) Push down the stopper [1], and remove the gear [2].

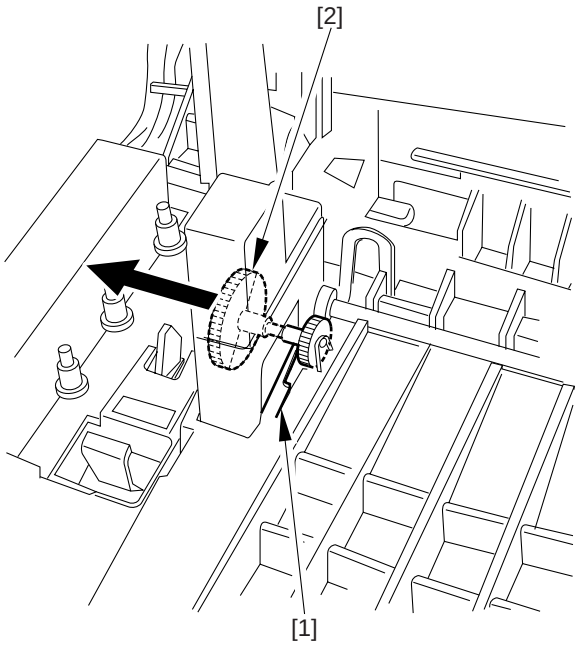

Figure 5-230

3) While freeing the claw [3], detach the four shafts [4]; then, detach the feed belt [5].

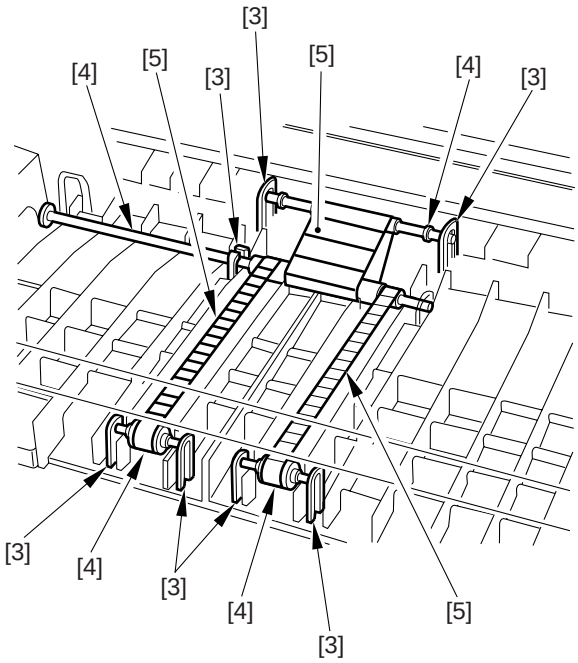

Figure 5-231

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E. Registration Roller Assembly

1. Removing the Registration Roller Unit

1) Open the machine's top unit.
2) Remove the spring [1] (front, rear).

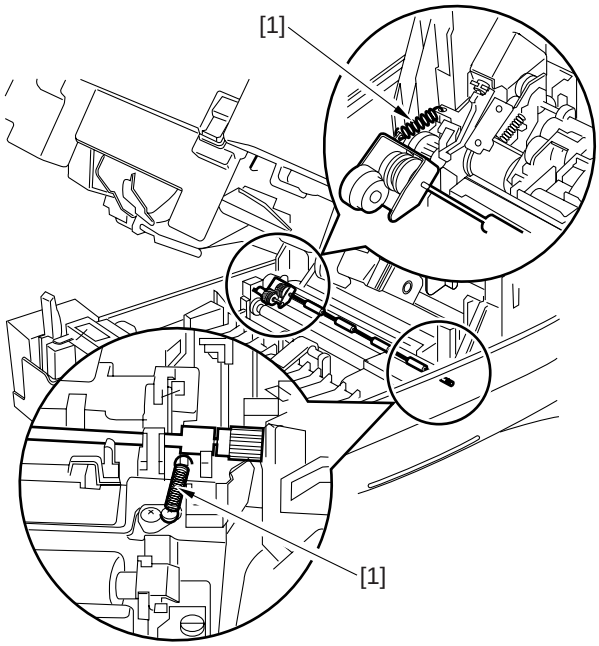

Figure 5-232

3) Remove the two bushings [2] and remove the registration roller lower unit [3].

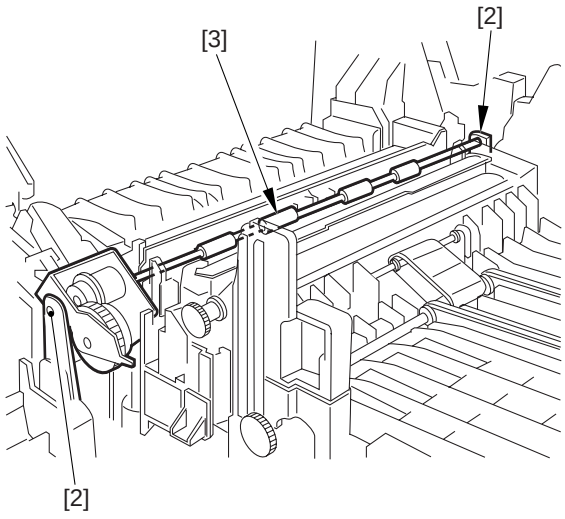

Figure 5-233

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2. Removing the Registration Roller Clutch

1) Remove the registration roller unit. (See 1. "Removing the Registration Roller Unit.")
2) Remove the bushing [1] and the E-ring [2].

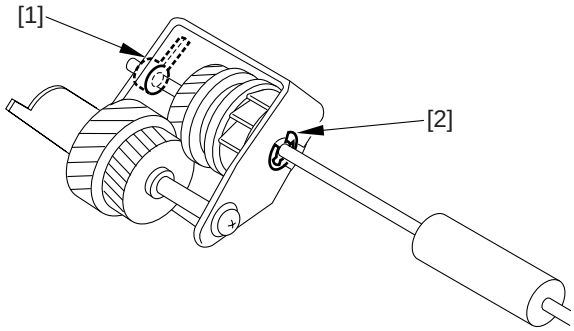

Figure 5-234

3) While shifting down the registration roller [3], detach it from the gear unit [4].

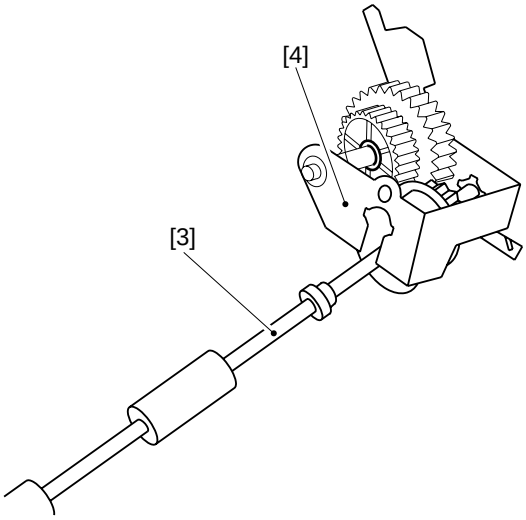

Figure 5-235

4) Remove the E-ring [5], and detach the registration roller clutch [6].

Caution:
The clutch has a pin. Take care not to lose it when removing the clutch.

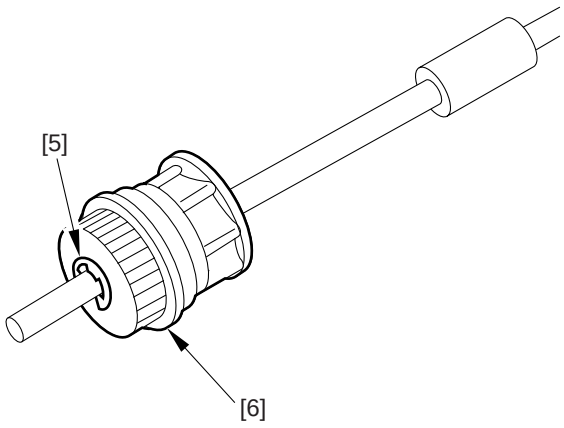

Figure 5-236

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F. Delivery Assembly

1. Removing the Delivery Roller

1) Remove the fixing lower roller. (See Chapter 6.II.A.3."Removing the Fixing Lower Roller.")
2) Remove the two screws [1], and detach the side plate [2] and the four gears [3].

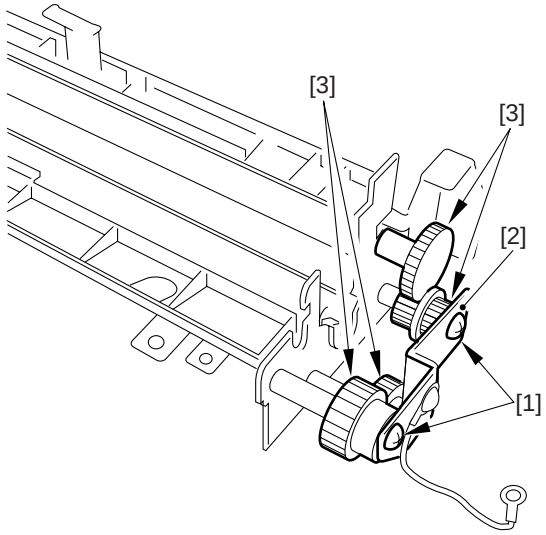

Figure 5-237

3) Remove the screw [4], and free the two hooks [5]; then, detach the sensor holder [6].

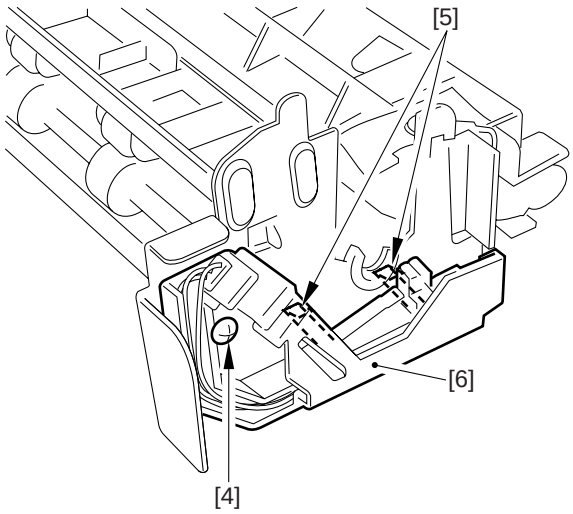

Figure 5-238

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4) Remove the two bushings [7].

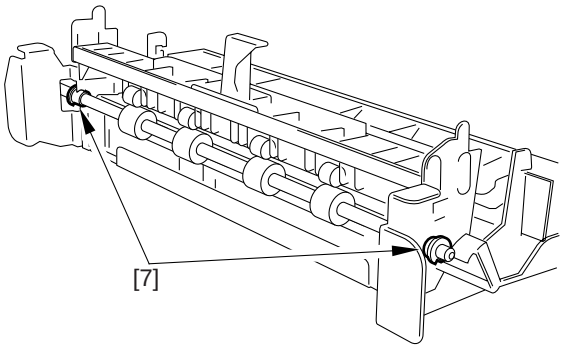

Figure 5-239

5) While shifting the delivery lower guide [8] toward the rear, detach the delivery roller [9].

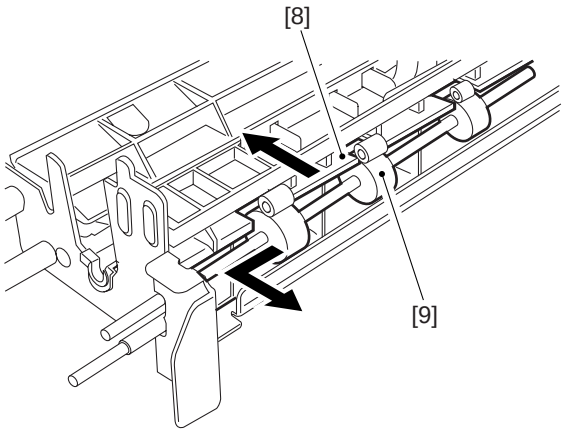

Figure 5-240

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CHAPTER 6

FIXING SYSTEM

This chapter explains the principles used to fuse toner images to transfer medium in view of the functions of electrical and mechanical units and in relation to their timing of operation. It also shows how these units may be disassembled/assembled and adjusted.

I. OPERATIONS 6-1
A. Outline 6-1
B. Controlling the Fixing Temperature 6-3

II. DISASSEMBLY/ASSEMBLY 6-10
A. Fixing Assembly 6-11

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I. OPERATIONS

A. Outline

The major functions of the fixing unit are as follows:

Item	Description
Fixing method	SURF
Fixing drive	Main Motor (M1)
Fixing heater	Flat heater
Fixing temperature detection	Thermistor (TH1)
Cleaner	Cleaning roller
Protective functions	The following are used to detect and protect against an error; upon detection, power to the fixing heater will be cut: • Thermistor (TH1) • Thermal fuse (FU2; activating at 228°C)
Error code	E000 The fixing temperature fails to increase. E001 The thermistor has detected overheating. E002 Fault in fixing power control. E003 The fixing temperature has dropped abnormally.

Table 6-101

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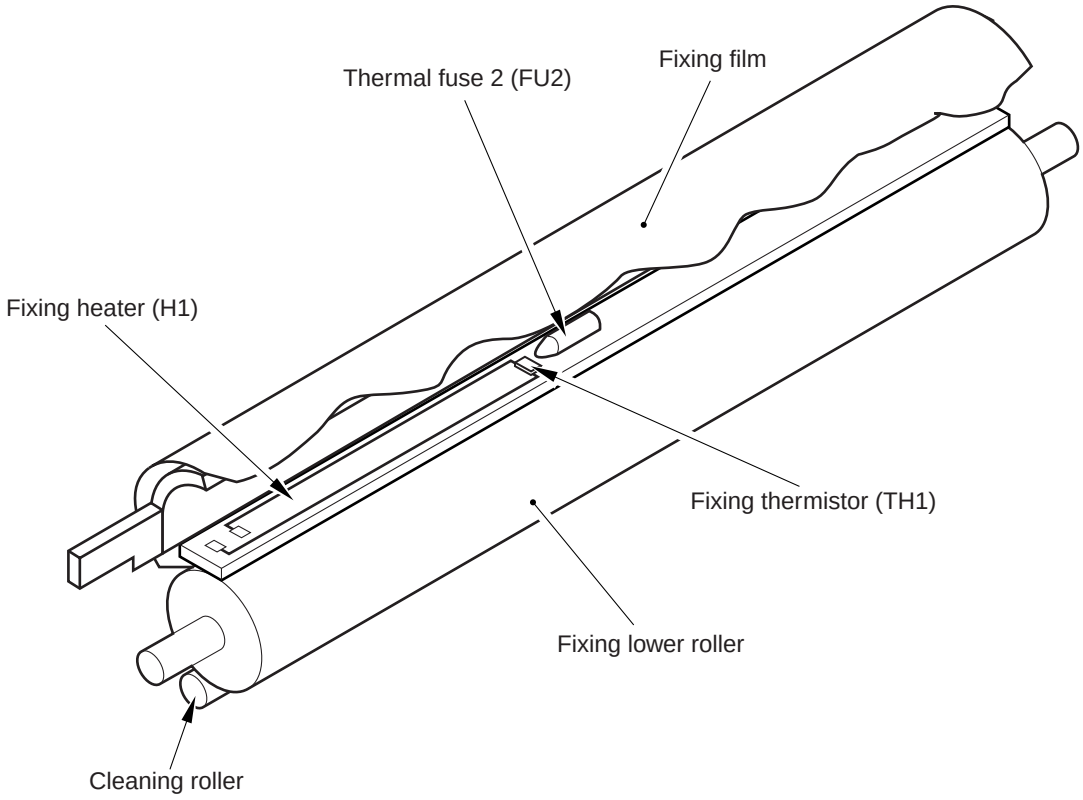

Figure 6-101

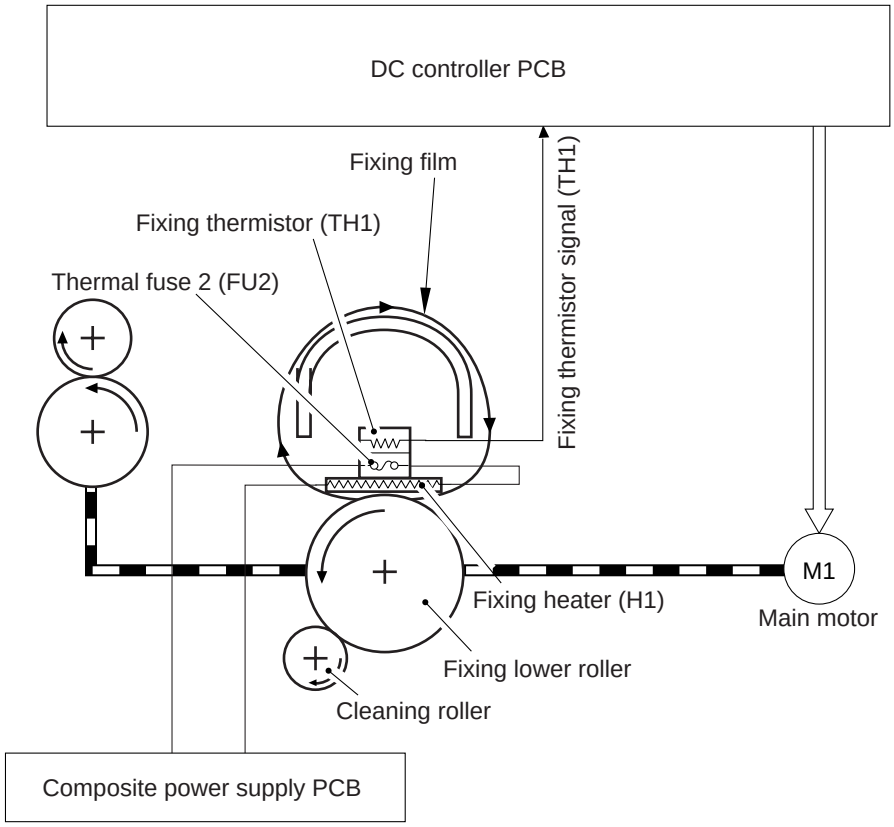

Figure 6-102

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B. Controlling the Fixing Temperature

1. Outline

The fixing lower roller of the fixing assembly is driven by the main motor (M1). When the fixing lower roller rotates, the film of the fixing upper unit starts to rotate in conjunction.

The fixing film is heated by the fixing heater (H1), which is a flat heater mounted in contact with the inner side of the film. The fixing heater is equipped with a thermistor (TH1), which sends the fixing thermistor signal (TH1) to the microprocessor (Q101) on the DC controller PCB; in response, the microprocessor controls the fixing heater duty signal (HEAT_PWM) to vary the power supplied to the heater by way of controlling the temperature of the fixing heater.

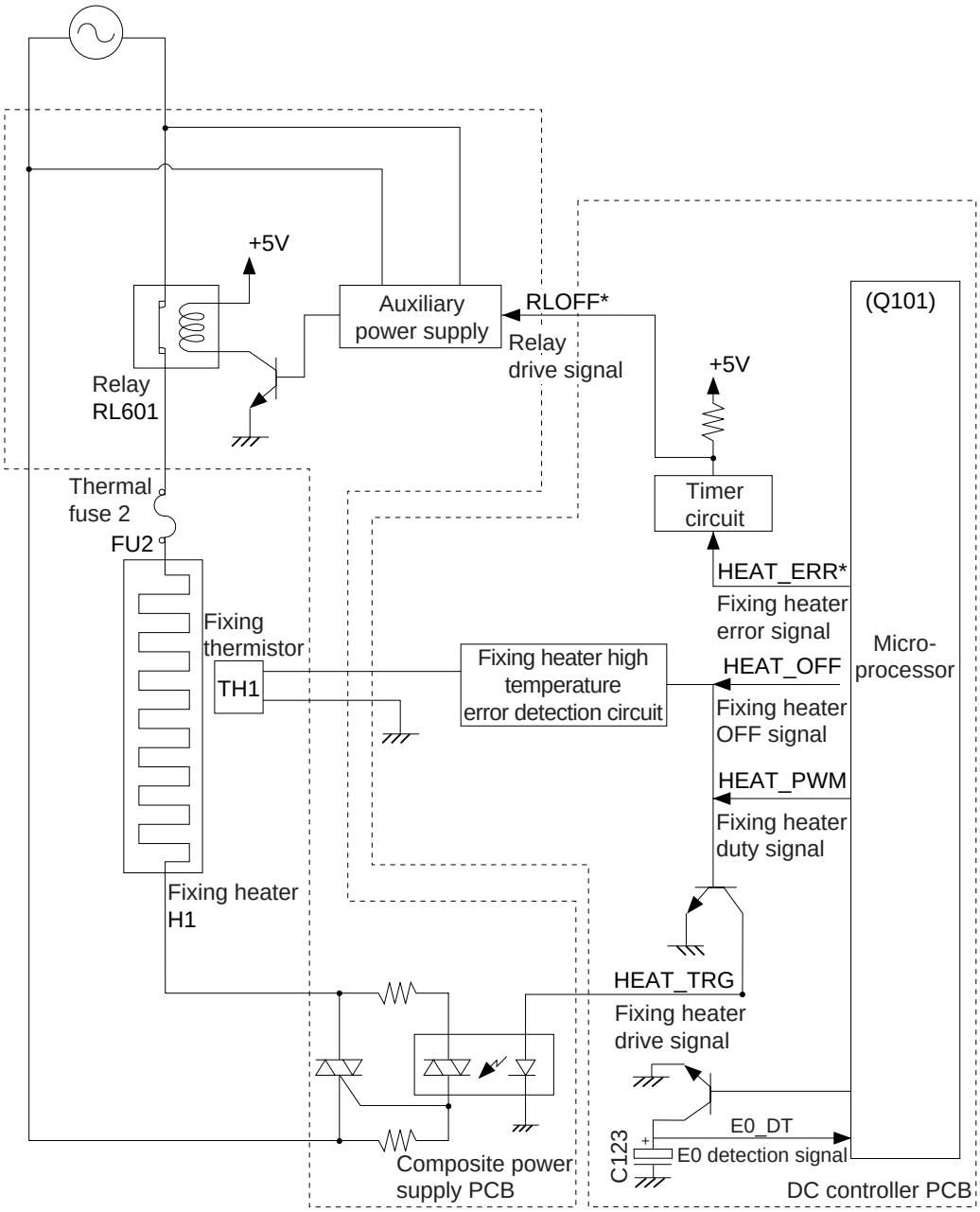

Figure 6-103

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2. Controlling the Temperature of the Fixing Heater

The temperature of the fixing heater is switched according to the following two parameters:

- Temperature of the fixing heater when the Copy Start key is pressed.
- Number of copies to make in continuous copying mode

Table 6-102 shows the temperature of the fixing heater when the Copy Start key is pressed (as detected by the thermistor TH1) and the temperatures to which the fixing heater is controlled according to the number of copies made in continuous mode.

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	Heater temperature when the Copy Start key is pressed	Number of copies	Control temperature (°C)
1	Less than 100°C	1	200
		2 ~ 9	195
		10 ~ 29	190
		30 ~ 39	185
		40 ~ 49	180
		50 ~ 59	175
		60 ~	170
2	100°C or more and less than 120°C	1 ~ 9	190
		10 ~ 19	186
		20 ~ 29	180
		30 ~ 39	175
		40 ~	170
3	120°C or more	1 ~ 9	180
		10 ~ 19	175
		20 ~	170

Table 6-102

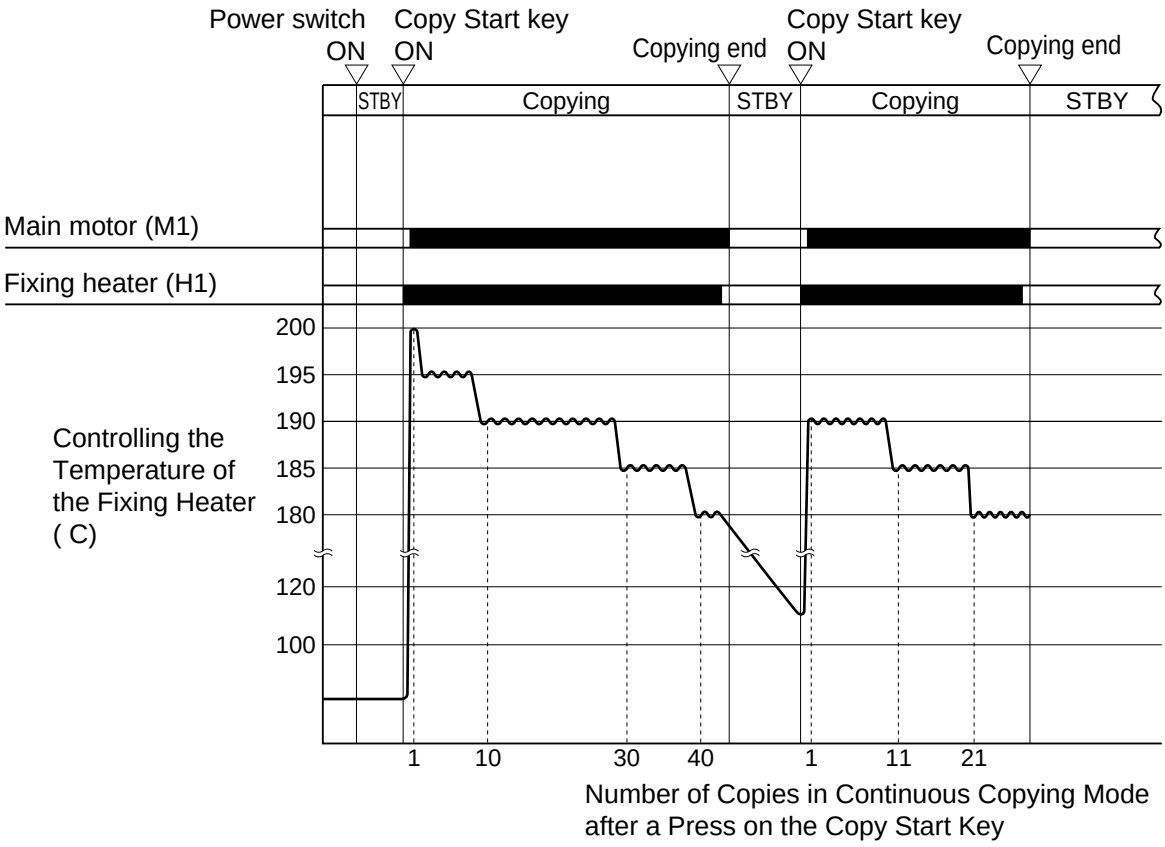

Figure 6-104

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3. Controlling the Temperature Supplied to the Fixing Heater

The temperature of the fixing heater is controlled by controlling the power supplied to the fixing heater, and the power to the fixing heater is controlled using a phase control method.

The microprocessor on the DC controller PCB controls the timing at which the fixing heater duty signal (HEAT_PWM) is generated so that power suited to the target temperature of the fixing heater may be supplied (phase control).

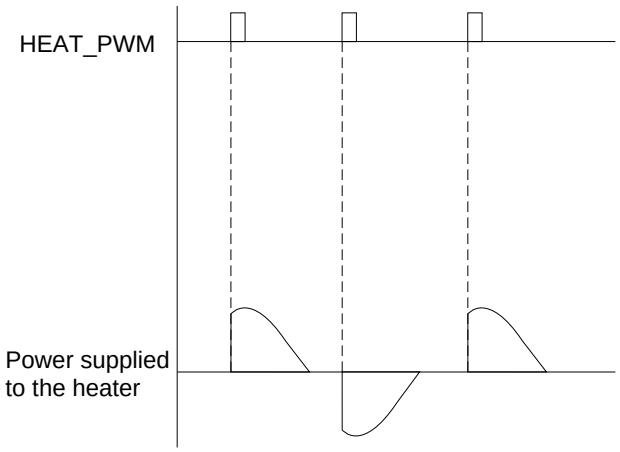

Figure 6-105

4. Correcting the Variation in the Resistance of the Fixing Heater

The characteristics of the flat heater used as the fixing heater vary from heater to heater because the production method. A discrepancy in resistance, if left alone, will not enable correct control of the fixing heater.

The machine makes correction in relation to the selected level of resistance (from three settings), and corrects it basd on the readings obtained by the microprocessor.

Caution:

The level of resistance of the fixing heater is selected by an appropriate combination of the jumper wires connected to the connector of the fixing thermistor (TH1) and the delivery sensor (PS3).

The best level is selected at the factory when the fixing assembly is assembled. Do not change the combination of jumper wires.

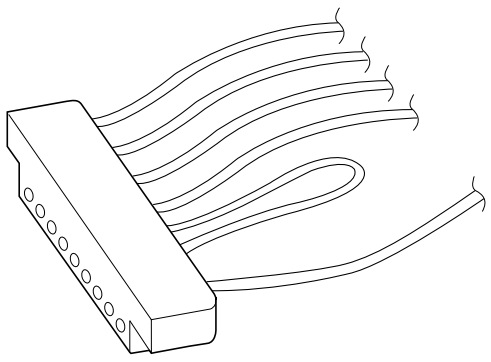

Figure 6-106

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5. Controlling the Power Supplied to the Fixing Heater between Sheets

When the copying speed is controlled to 6 cpm to prevent overheating of the copyboard, the temperature of the fixing lower roller tends to increase because of the increased sheet-to-sheet distance. To prevent possible problems, power to the fixing heater is stopped between sheets when the copying speed is controlled to 6 cpm.

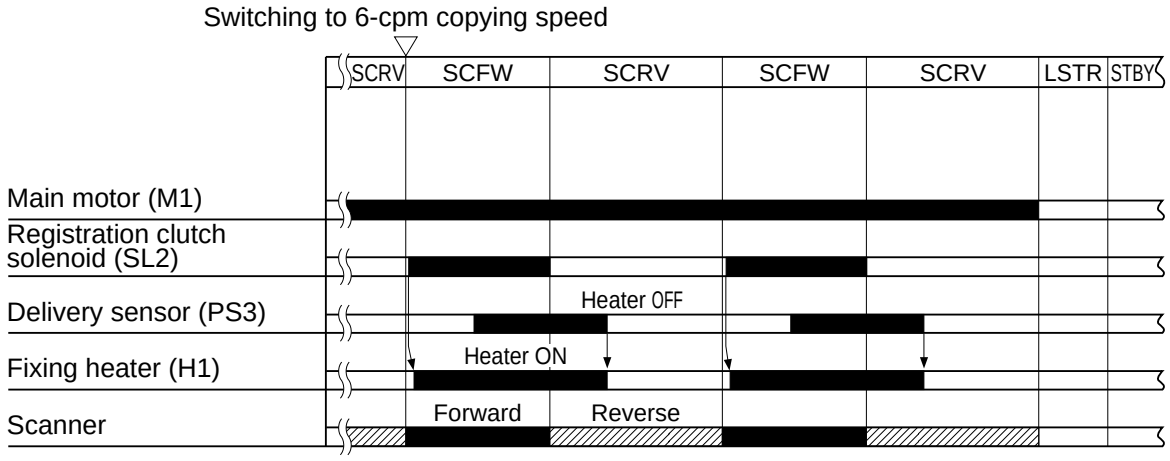

Figure 6-107

6. Protective Functions

The machine is equipped with the following protective functions to prevent malfunction of the fixing heater.

a. Thermistor (TH1)

The microprocessor on the DC controller PCB monitors the voltage of the thermistor (TH1); if an abnormally high or low temperature is detected, the microprocessor sends the fixing heater error signal (HEAT_ERR*) to the timer circuit and, at the same time, indicate an error code (E000 through E003).

In response, the timer circuit sends the relay drive signal (RLOFF*) to the auxiliary power supply in about 1.2 sec after it hs received the fixing heater error signal (HEAT_ERR*).

The auxiliary power supply turns off the relay (RL601) to turn off the power. Then, the data of 'E0' (associated with the heater) is retained so as to indicate 'E0' when the power is turned on the next time.

'E0' is backed up for about 5 min. After 'E000' through 'E003' is indicated in the control panel and the power is turned off, the machine will indicate 'E0' in the control panel if the power switch is turned on within 5 min, not recognizing a press on the Copy Start key. If the Copy Start key is pressed after about 5 min, however, a press on the Copy Start key will be recognized.

If an error is detected in relation to the heater during copying operation, the machine will indicate 'E000' through 'E003' in the control panel once again and turn off the power.

Related Error Code

E000
• The temperature detected by the thermistor (TH1) is not 65°C in 1.5 sec after the Copy Start key is pressed. • The temperature detected by the thermistor (TH1) is not 150°C in 4 sec after the Copy Start key is pressed.

E001
• The temperature detected by the thermistor (TH1) is 230°C or more. • The temperature detected by the thermistor (TH1) is higher than the control temperature by 30°C or more. • The thermistor (TH1) has detected an increase in temperature of 100°C or more in 1 sec. • The thermistor (TH1) has detected an increase in temperature of 40°C or more after it detected 100°C in standby state. • E0 detection signal (E0_DT) has been detected twice in succession.

E002
The temperature detected by the thermistor (TH1) is 150°C or higher and, thereafter, maximum power has been supplied to the fixing heater for 10 to 14 sec during copying operation.

E003
The temperature detected by the thermistor (TH1) is 160°C and then 150°C or lower during copying operation.

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b. Thermal Fuse (FU2)

If the temperature around the thermal fuse exceeds 228°C and remains so for a specific period of time, the thermal fuse will blow to cut the power to the fixing heater.

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II. DISASSEMBLY/ASSEMBLY

As needed, disassemble/assemble the machine with the following in mind:

1. ⚠ Before starting the work, turn off the power switch and disconnect the power plug for safety.
2. Unless otherwise instructed, assemble the parts by reversing the steps used to disassemble it.
3. Identify the screws by type (length, diameter) and location.
4. Use the washers where necessary. (The screws used to mount the grounding wire and Varistors come with a washer to ensure electrical continuity.)
5. As necessary, cut the harness band.
6. As a rule, do not operate the machine with any of its part removed.
7. A few of the screws used are special screws (with wider thread intervals). Do not use any screws indiscriminately.

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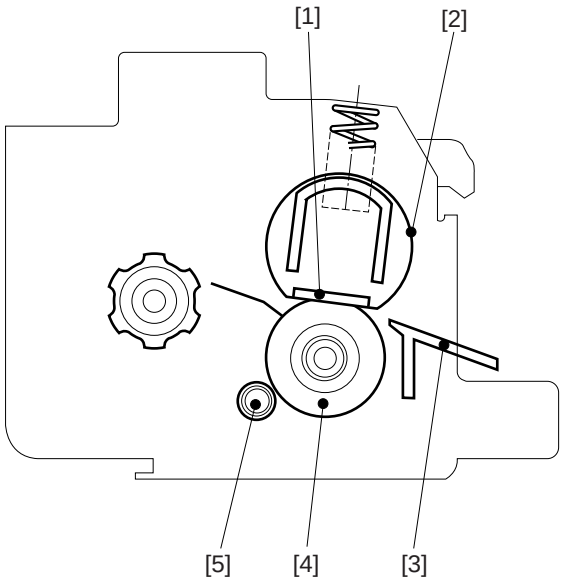
A. Fixing Assembly

1. Construction

Caution:

1. The fixing film is made from a special material. Do not touch it or subject it to dust.
2. The machine does not have a mechanism used to adjust the roller pressure.



[1] Fixing heater
[2] Fixing film
[3] Inlet guide
[4] Fixing lower roller
[5] Cleaning roller

Figure 6-201

2. Removing the Fixing Assembly

1) Remove the front lower cover.
(See Chapter 7.Ⅲ.A.2.“Removing the Front Lower Cover.”)
2) Remove the screw [1], and free the two hooks [2]; then, detach the power supply cover [3].

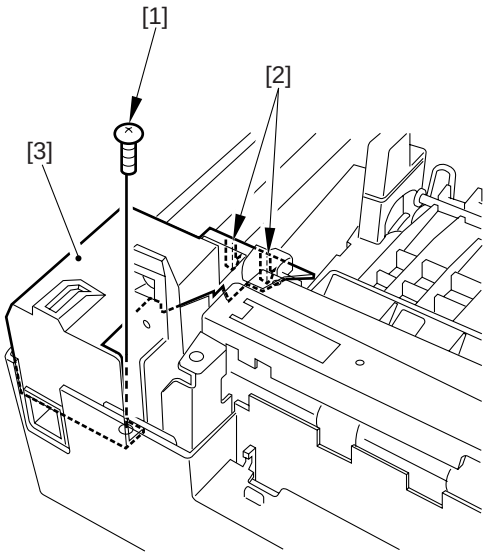


Figure 6-202

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3) Remove the screw [4], and disconnect the connector [5].

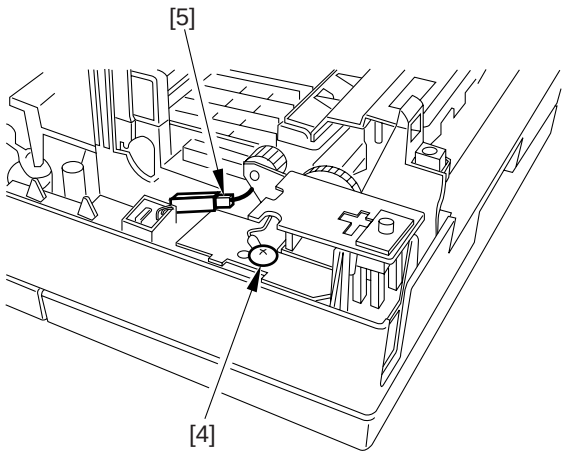

Figure 6-203

4) Remove the two screws [6], and disconnect the connector [7]; then, detach the fixing assembly [8] by turning it in the direction of the arrow.

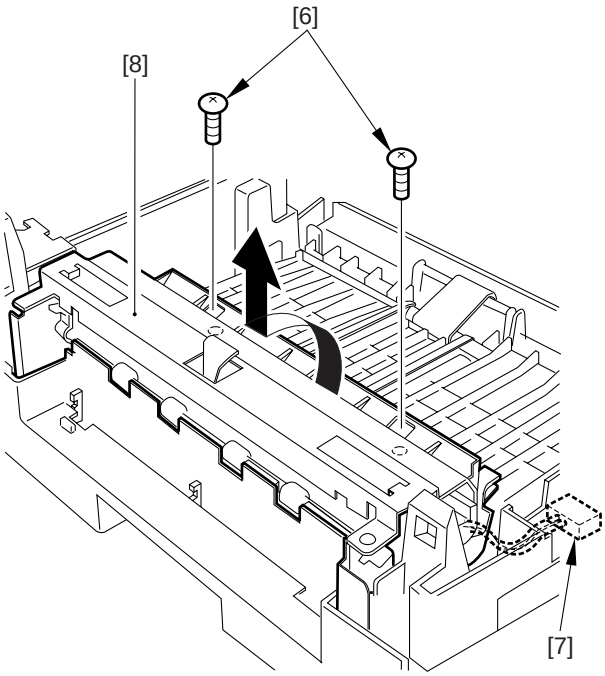

Figure 6-204

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3. Removing the Fixing Lower Roller

1) Remove the fixing assembly.
(See 2. “Removing the Fixing Assembly.”)
2) Remove the two screws [1], and free the two hooks [2]; then, detach the fixing upper stay [3] by turning it in the direction of the arrow.

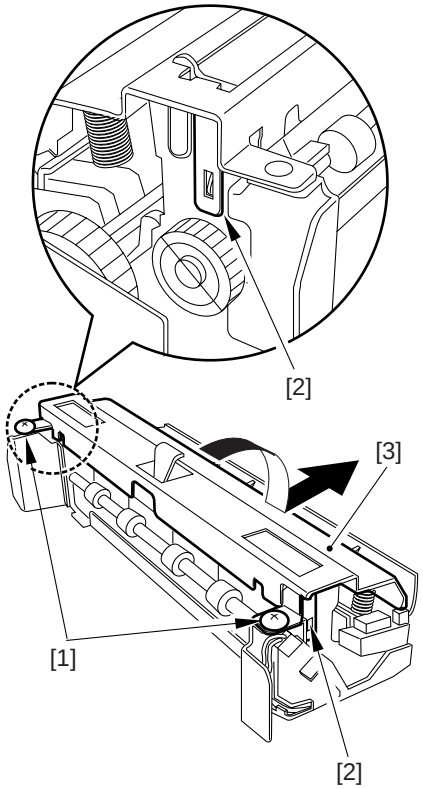

Figure 6-205

3) Detach the harness band [4] from the side plate, and remove the fixing upper unit [5].

Caution:
Do not disassemble the fixing film and the fixing heater. They cannot be replaced on their own.

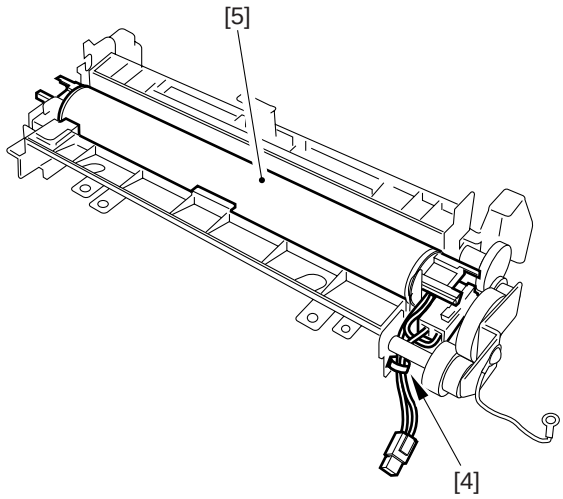

Figure 6-206

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4) Remove the fixing lower roller [6] together with the gear.

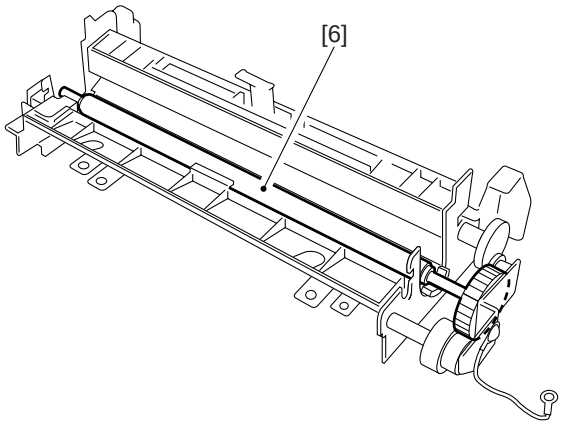

Figure 6-207

4. Removing the Cleaning Roller

1) Remove the fixing lower roller. (See 3. “Removing the Fixing Lower Roller.”)
2) Remove the cleaning roller [1] together with the bushing.

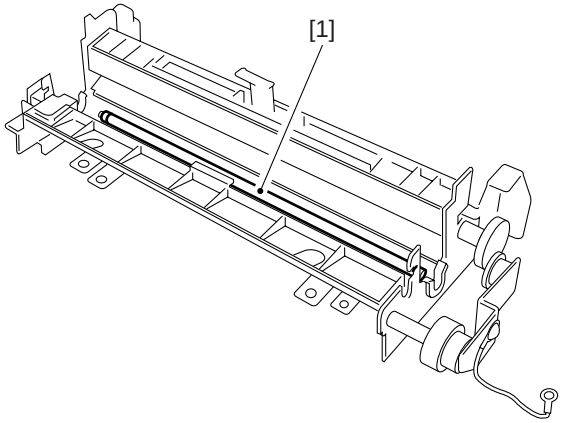

Figure 6-208

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CHAPTER 7

EXTERNALS/AUXILIARY MECHANISMS

This chapter shows the machine's external parts, and explains the principles used for the machine's various control mechanisms in view of the functions of electrical and mechanical units and in relation to their timing of operation. It also shows how these units may be disassembled/assembled and adjusted.

I. FANS 7-1
II. POWER SUPPLY SYSTEM 7-3
  A. Outline of the Power Supply System 7-3
  B. Power Supply Circuit 7-4
  C. Detecting an Error on the Composite Power Supply PCB 7-6
  D. Protecting the Power Supply Circuit 7-6
III. DISASSEMBLY/ASSEMBLY 7-7
  A. External Covers 7-8
  B. Control Panel 7-15
  C. Copyboard Glass 7-16
  D. Main Motor/Main Drive Assembly 7-17
  E. Electrical System 7-21

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I. FANS

The machine is equipped with two fans serving to discharge ozone or cool its inside.

The heat exhaust fan is driven directly by the main motor (M1; through a belt and a gear), and is designed to rotate at all times while the main motor is rotating.

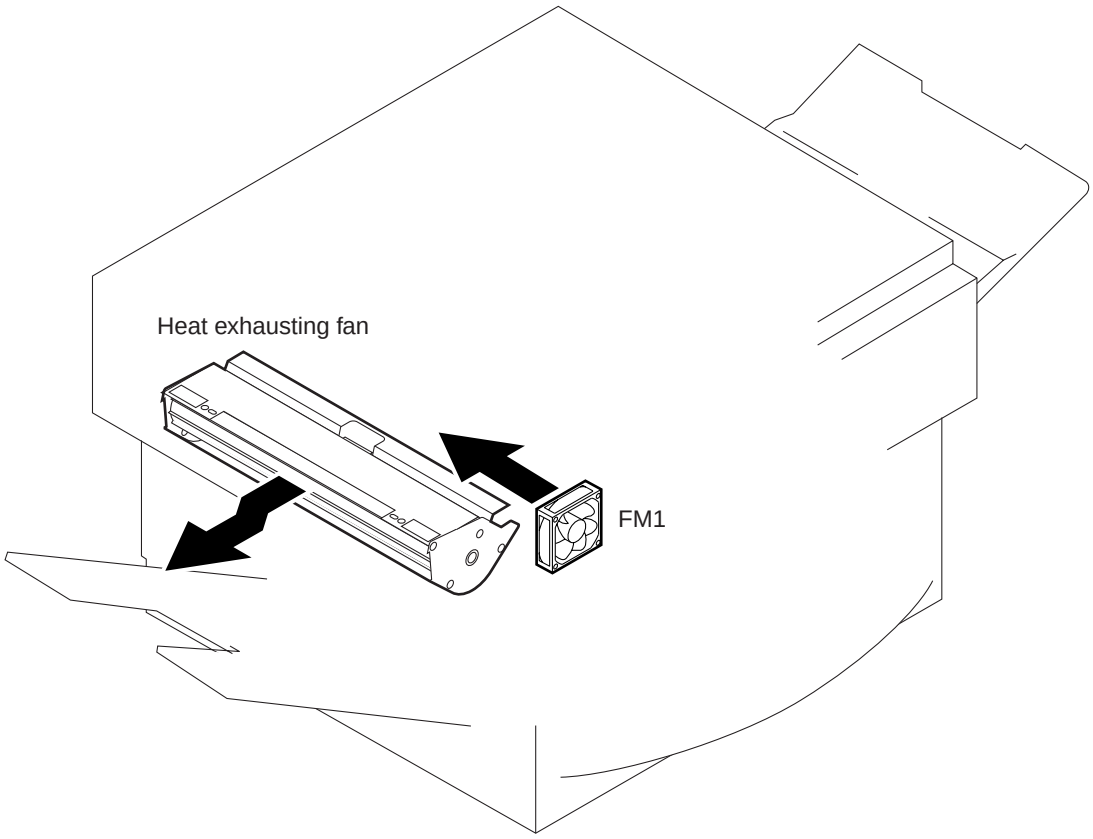

Figure 7-101

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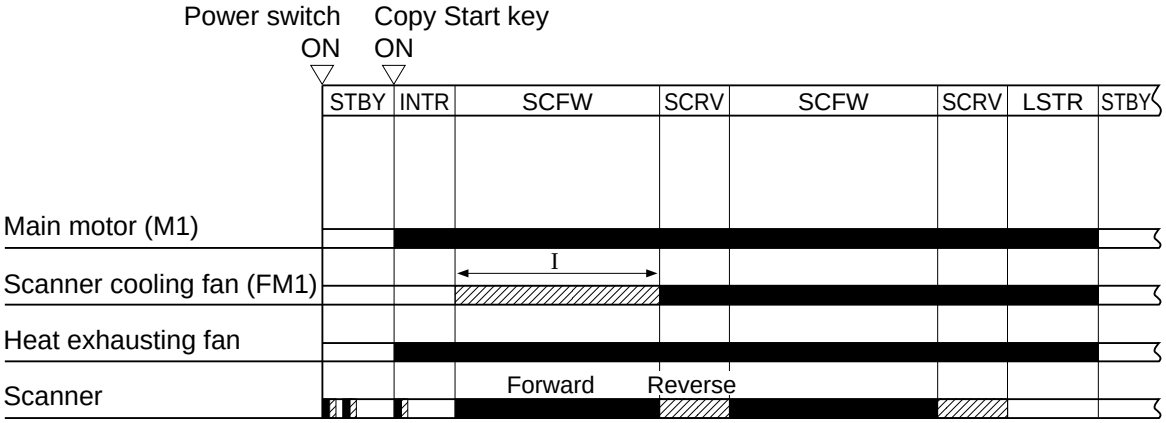
The scanner cooling fan (FM1) is turned on and off according to the temperature detected by the scanner thermistor (TH2).

If the reading by the thermistor is 37.5°C or higher and the copying speed reaches 6 cpm, the fan starts to rotate. If the reading is lower than 37.5°C, on the other hand, the fan will not rotate if no more than one copy is made or while making the first copy of a continuous copying job. (It rotates when making the second and subsequent copies of a continuous copying job.)



I: If 6-cpm copying speed control is executed starting with the first copy, the fan will rotate.

Figure 7-102

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II. POWER SUPPLY SYSTEM

A. Outline of the Power Supply System

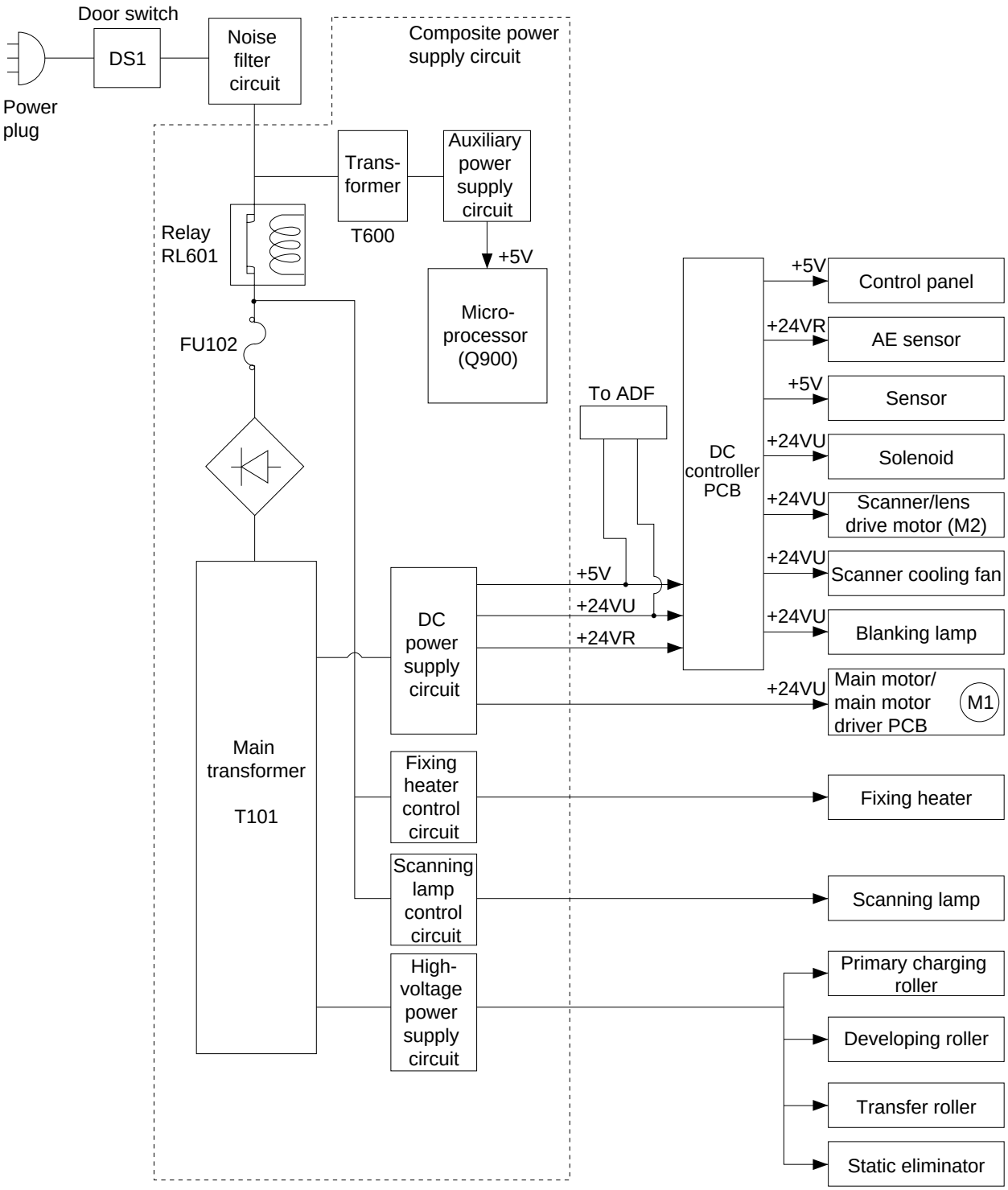

Figure 7-201

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B. Power Supply Circuit

The machine’s power supply consists of a composite power supply circuit in which a DC power supply, scanning lamp power supply, and high-voltage power supply are integrated on a single board. It also possesses a microprocessor for exchanges of various data with the machine's DC controller PCB.

The machine’s power switch is a soft switch, and the machine is equipped with an auxiliary power supply used to operate the switch. The auxiliary power supply provides the microprocessor (Q900) with +5 V as long as the door switch (DS1) remains on.

AC power is supplied to the DC power supply when the power switch on the control panel is turned on. In response, the DC power supply provides the DC controller PCB with +5 V, +24 VR, and +24 VU.

When the power switch is turned off, the power to the DC controller PCB is cut off. To back it up against ‘E000’, ‘E001’, ‘E002’, and ‘E003’, the machine is equipped with a DC capacitor as part of the DC controller circuit.

When ‘E000’, ‘E001’, ‘E002’, or ‘E003’ occurs, the capacitor (C123) collects electric charge; if charge exists in the capacitor while the power switch is on, the machine indicates ‘E0’ on the control panel to indicate that an error related to the fixing heater has occurred.

Note:

The backup capacitor (C123) retains electric charge for about 5 min after the power switch is turned off.

Reference:

The tolerances in DC voltage are as follows:

- +5 V ±5%
- +24 VR ±5%
- +24 VU -10.0%, +12.5%

For +24 VR, two types of voltage are used:

- During copying, +24 V ±5%
- During standby, +18 V ±10%

However, the above assume that the deviations in AC input are -15%, +10%.

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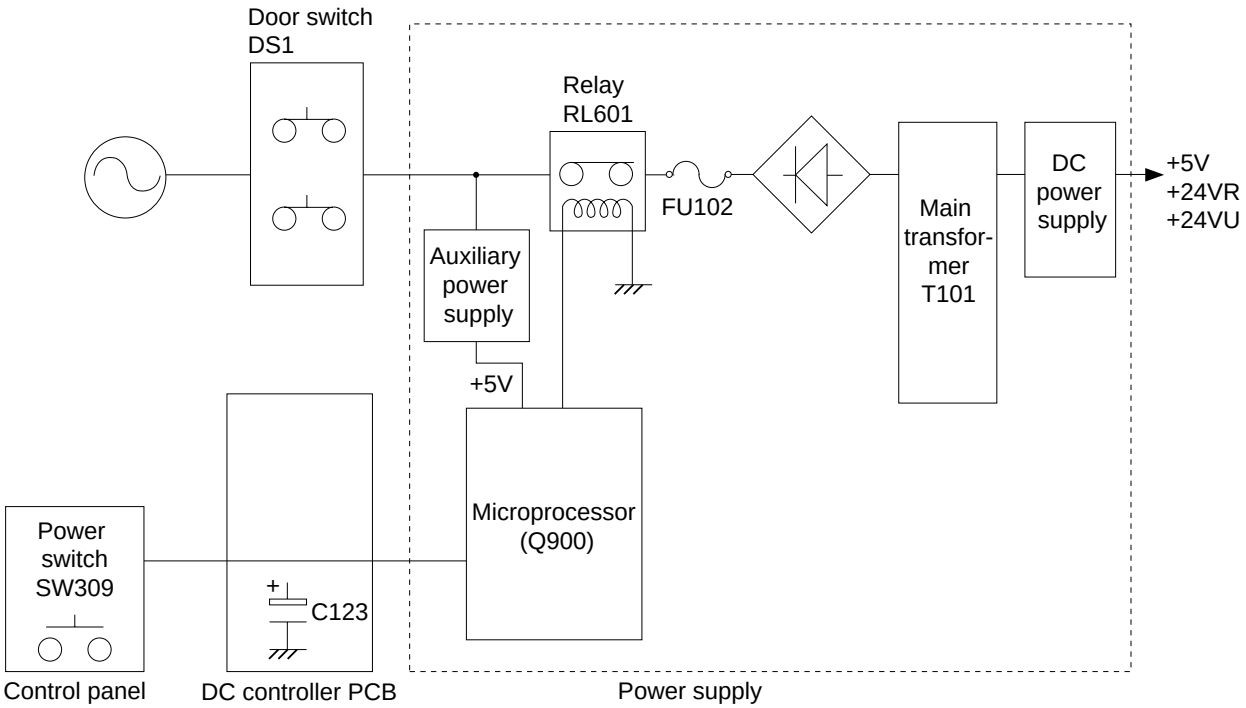

Figure 7-202

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C. Detecting an Error on the Composite Power Supply PCB

The machine's composite power supply PCB is equipped with a self diagnostic function to check each power output and the communication with the DC controller PCB using the microprocessor (Q900) mounted on it.

If any of the following errors occurs, the microprocessor will exchange signals with the DC controller PCB, and will indicate the result of self diagnosis on the control panel.

1. Detecting an Over-Current in the Low-Voltage System

If an over-current is detected because of a fault in a DC load, the composite power supply PCB will turn off the relay (RL601) to cut the AC input.

2. Detecting a Fault in the High-Voltage Control Value

If a deviation is found between the setting value and the actual value is detected in any of the following voltages, the composite power supply will indicate 'E064' on the control panel.

- Primary charging DC bias
- Developing DC bias
- Transfer bias

3. Detecting a Fault in the Low-Voltage Control Value

If a deviation is detected between the setting value and the actual control value in +24 V (DC output), the composite power supply PCB will indicate 'E803' on the control panel.

4. Fault in the Communication with the DC Controller

If the DC controller PCB detects a fault in the communication with the composite power supply PCB, 'E240' will be indicated on the control panel for about 4 sec, and then the relay (RL601) will be turned off to cut the AC input.

D. Protecting the Power Supply Circuit

The composite power supply PCB is equipped with an over-current detection function which turns on a protective mechanism to stop output if a load suffers a short-circuit.

If the output has stopped, it may be reset by opening the machine's top unit, correcting the load, and then turning the power switch back on.

Keep in mind, however, that repeated short-circuiting and resetting can blow the fuse (FU102).

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III. DISASSEMBLY/ASSEMBLY

As needed, disassemble/assemble the machine with the following in mind:

1. ⚠ Before starting the work, turn off the power switch and disconnect the power plug for safety.
2. Unless otherwise instructed, assemble the parts by reversing the steps used to disassemble it.
3. Identify the screws by type (length, diameter) and location.
4. Use the washers where necessary. (The screws used to mount the grounding wire and Varistors come with a washer to ensure electrical continuity.)
5. As necessary, cut the harness band.
6. As a rule, do not operate the machine with any of its part removed.
7. A few of the screws used are special screws (with wider thread intervals). Do not use any screws indiscriminately.

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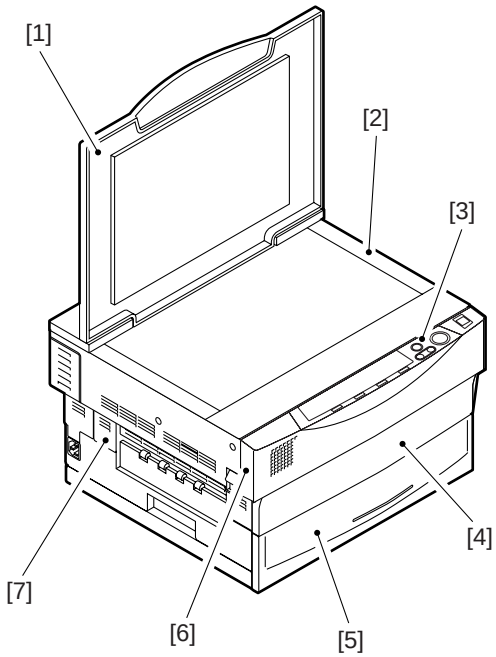
A. External Covers

For instructions on how to remove the ADF, see Chapter 8.



[1] Copyboard cover
[2] Top cover
[3] Control panel
[4] Front lower cover
[5] Cassette
[6] Front upper cover
[7] Left cover

Figure 7-301 (Copyboard type)

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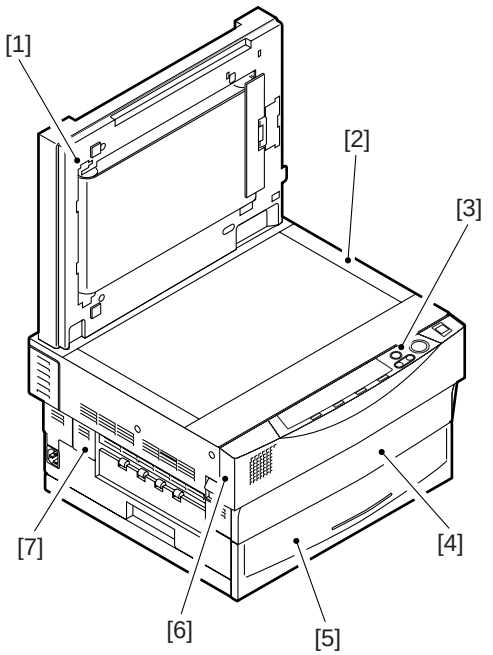


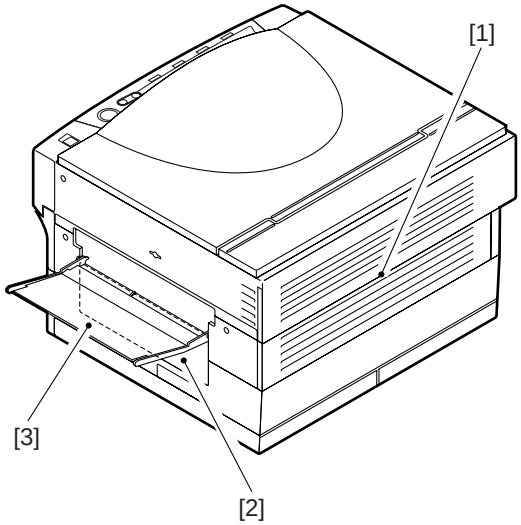
[1] ADF
[2] Top cover
[3] Control panel
[4] Front lower cover
[5] Cassette
[6] Front upper cover
[7] Left cover

Figure 7-302 (ADF type)

Note:

Remove the covers as necessary when cleaning, inspecting, or repairing the inside of the machine.

Those covers that may be detached from their own by mere removal of mounting screws are omitted from the discussions.



[1] Rear cover
[2] Right door
[3] Multifeeder unit

Figure 7-303

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1. Removing the Top Cover

1) Remove the copyboard cover or the ADF.
2) Open the machine's top unit.
3) Remove the two screws [1], and detach the front upper cover [2].

Caution:

A flexible cable for the control panel is connected to the front upper cover. Disconnect the cable from the DC controller.

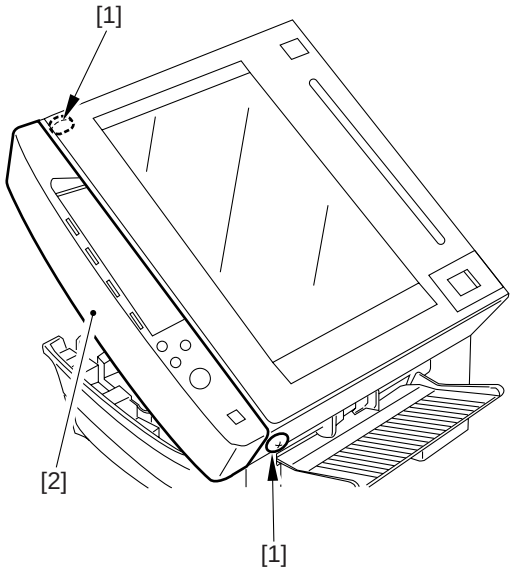

Figure 7-304

4) Free the two claws [3], and slide the left cover [4] to detach.

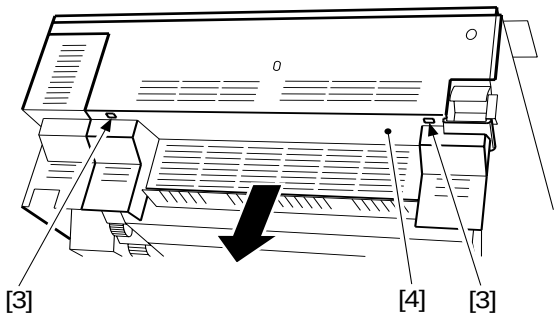

Figure 7-305

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5) Remove the screw [5], and free the four claws [6]; then, detach the rear cover [7].

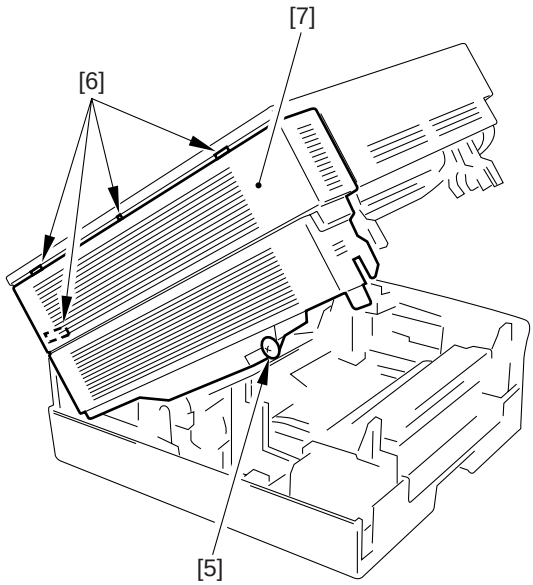

Figure 7-306

6) Remove the screw [8], and detach the copyboard cover foot retainer [9].

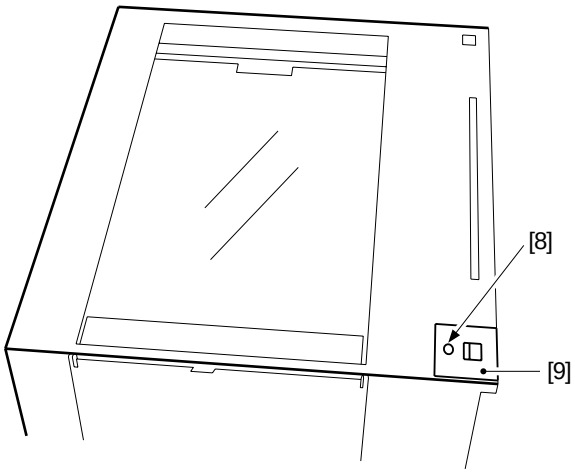

Figure 7-307

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7) Free the two claw [10]; then lift the top cover [11] to detach.

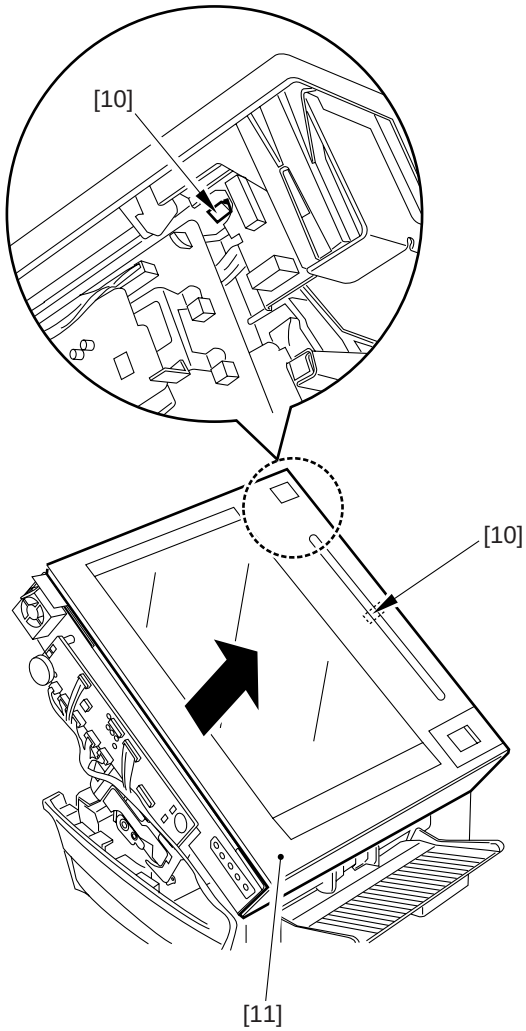

Figure 7-308

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2. Removing the Front Lower Cover

1) Open the right door.
2) Remove the two screws [1], and detach the multifeeder unit [2] (or the single-feeder unit).

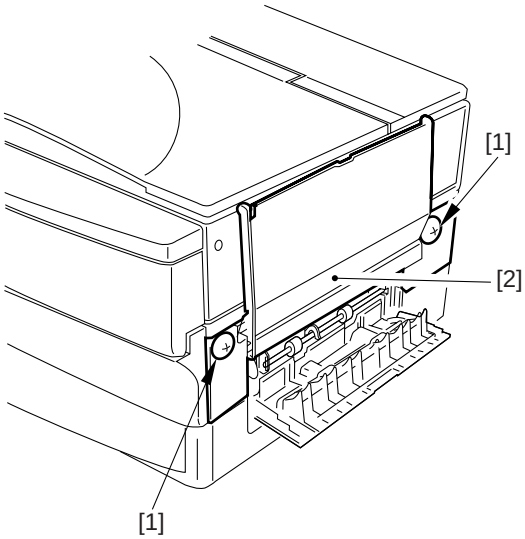

Figure 7-309

3) Open the machine's top unit.
4) Remove the two screws [3], and detach the front upper cover [4].

Caution:

A flexible cable for the control panel is connected to the front upper cover. Disconnect the cable from the DC controller.

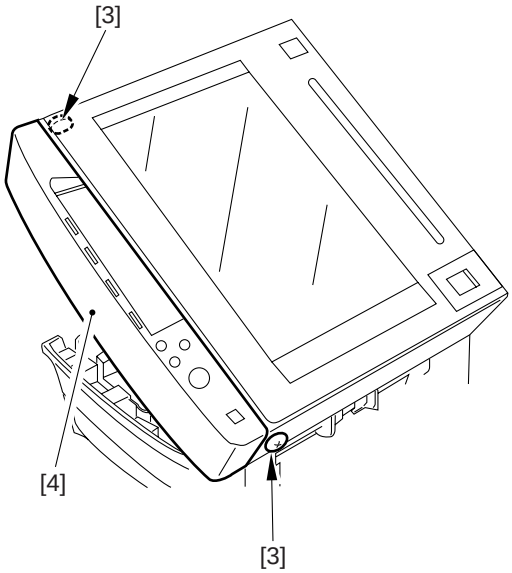

Figure 7-310

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5) Remove the two screws [5] from the screw plate found at the bottom of the machine.

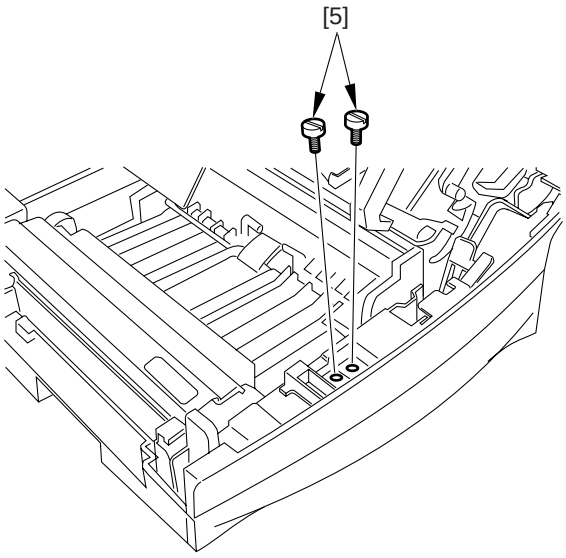

Figure 7-311

6) While freeing the five claws [6], detach the front lower cover [7].

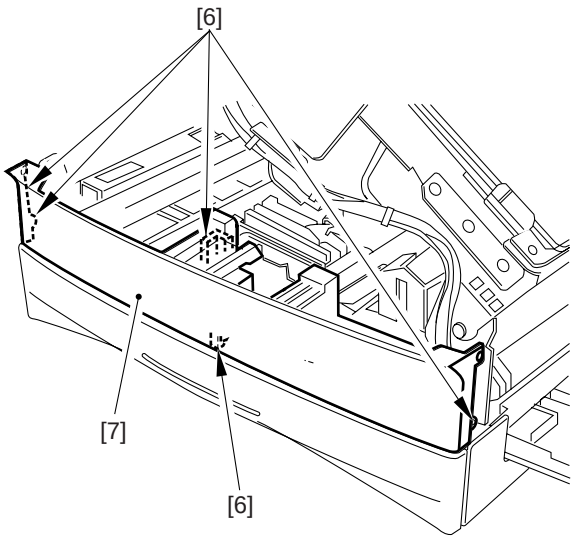

Figure 7-312

Caution:

When mounting the multifeeder unit, be sure to perform the following first:

1) Turn on the power switch; then, select the multifeeder as the source of paper, and press the Copy Start key.
2) When the pickup gear unit assembly has moved to its upper limit, turn off the power switch.
3) Mount the multifeeder, and make one copy using it as the source of paper.

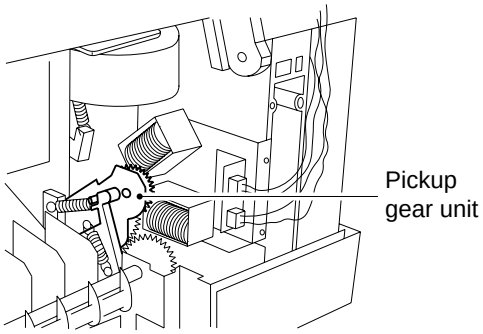

Figure 7-313

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B. Control Panel

1. Removing the Control Panel

1) Open the machine's top unit.
2) Remove the two screws [1], and detach the front upper cover [2].

Caution:
A flexible cable for the control panel is connected to the front upper cover. Disconnect the cable from the DC controller.

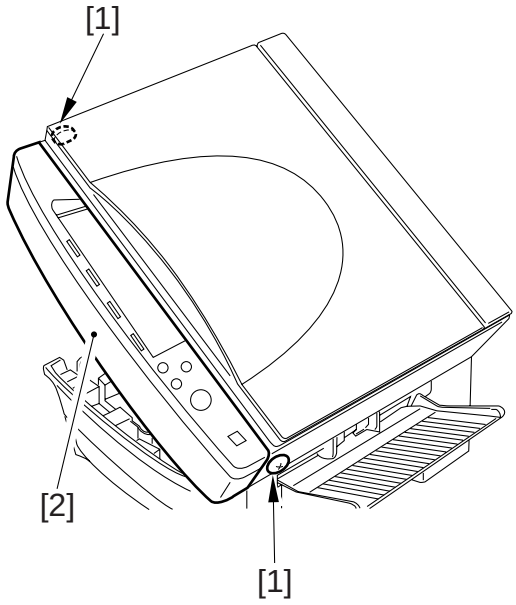

Figure 7-314

3) Free the claw [3], and remove the power supply switch assembly [4]. Move the copy density adjusting lever [5] to the farthest right, and free the four claws [6]; then, detach the control panel [7].

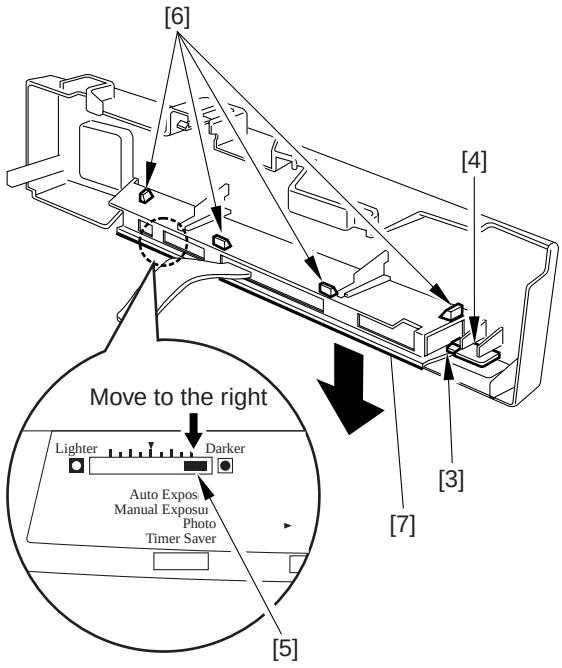

Figure 7-315

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C. Copyboard Glass

1. Removing the Copyboard Glass

1) Remove the top cover. (See A.1. “Removing the Top Cover.”)
2) Close the machine’s top unit.
3) Remove the two screws [1], and detach the two support plates [2]; then, detach the copyboard glass [3].

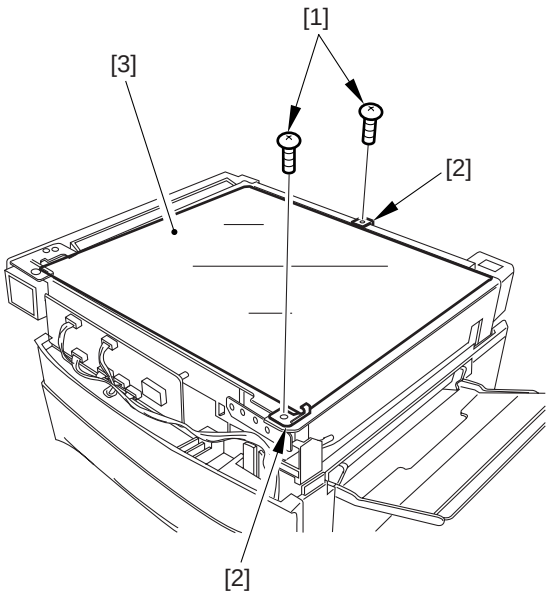

Figure 7-316

Note:

When mounting the copyboard glass, be sure that the grounding plate is on the side of its top edge. (ADF type only)

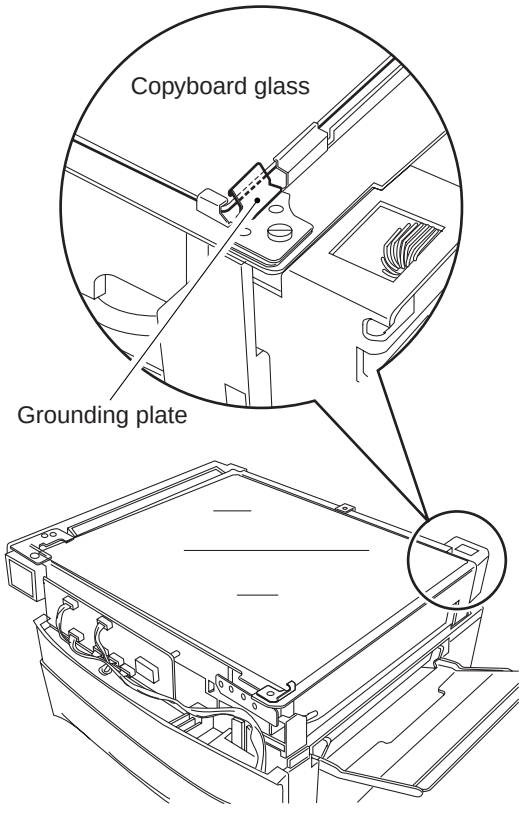

Figure 7-317

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D. Main Motor/Main Drive Assembly

1. Removing the Main Motor Unit

1) Remove the drum cartridge.
2) Remove the composite power supply PCB.
   (See E.2. “Removing the Composite Power Supply PCB.”)
3) Remove the screw [1], and detach the high-voltage PCB [2].

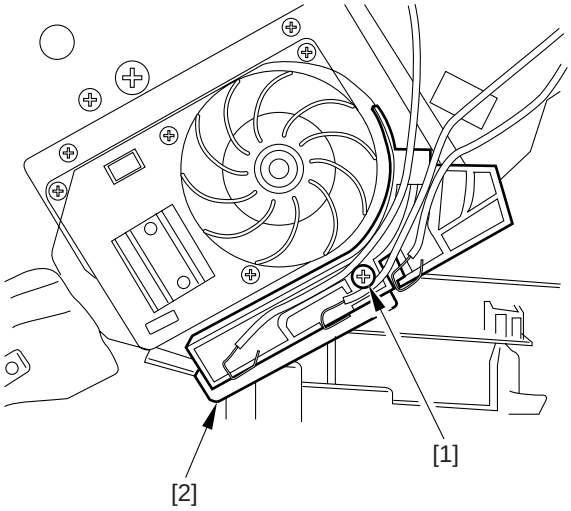

Figure 7-318

4) Remove the insulating sheet [3].

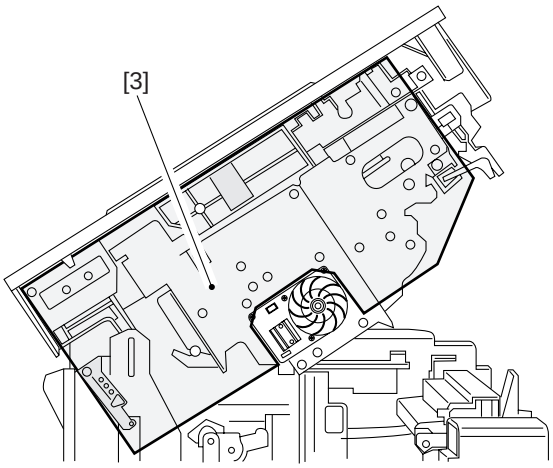

Figure 7-319

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5) Detach the fan belt [4].

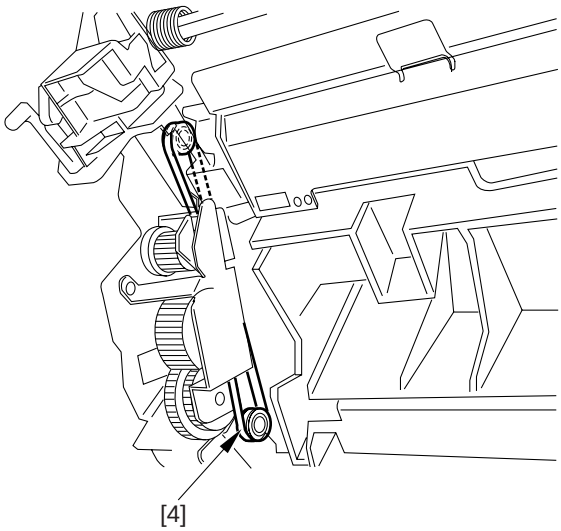

Figure 7-320

6) Remove the four screws [5], and detach the main motor unit [6].

Caution:
When installing the main motor unit, be sure to attach the fan belt.
After attaching the fan belt, make sure that the belt is free of twists.

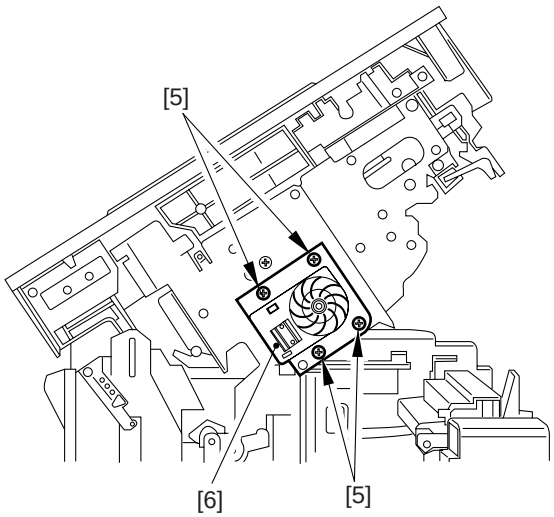

Figure 7-321

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2. Removing the Main Drive Assembly

1) Remove the drum cartridge.
2) Remove the composite power supply PCB.
   (See E.2. “Removing the Composite Power Supply PCB.”)
3) Remove the screw [1], and detach the high-voltage PCB [2].

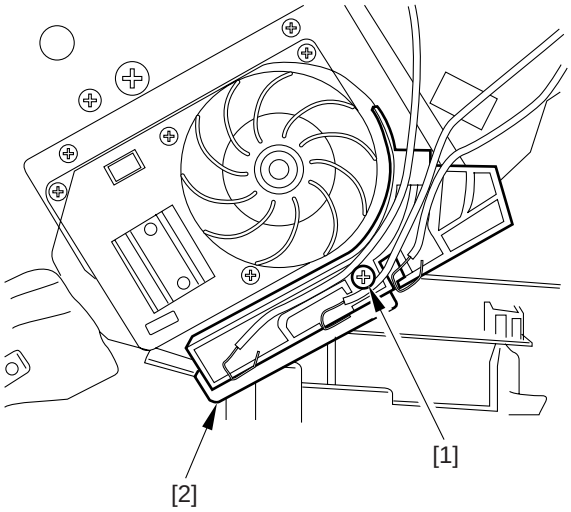

Figure 7-322

4) Remove the insulating sheet [3].

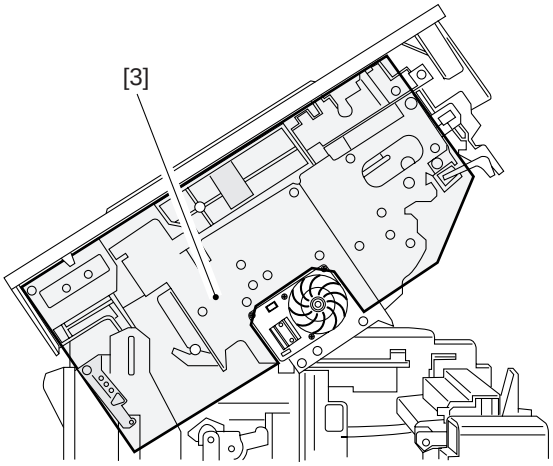

Figure 7-323

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5) Detach the fan belt [4].

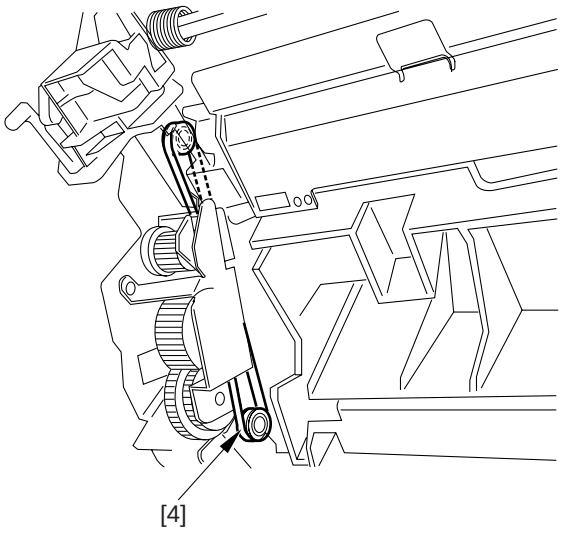

Figure 7-324

6) Remove the five screws [5], and detach the main drive assembly [6].

Caution:
When installing the main drive assembly, be sure to attach the fan belt.
After attaching the fan belt, make sure that the belt is free of twists.

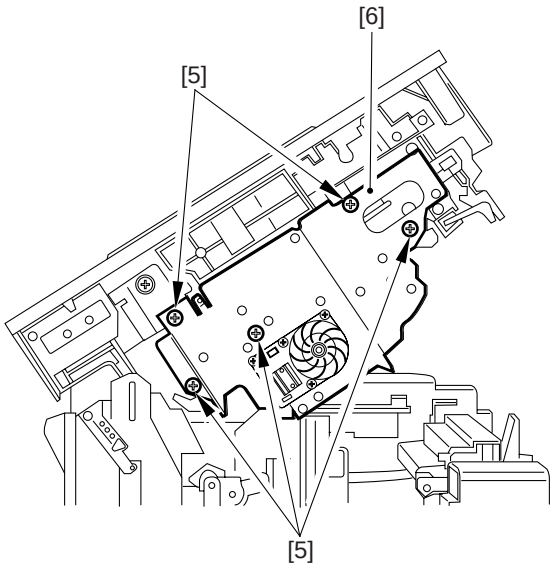

Figure 7-325

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E. Electrical System

1. Removing the DC Controller PCB

1) Open the machine's top unit.
2) Remove the screw [1], and detach the front upper cover [2].

Caution:
A flexible cable for the control panel is connected to the front upper cover. Disconnect the cable from the DC controller.

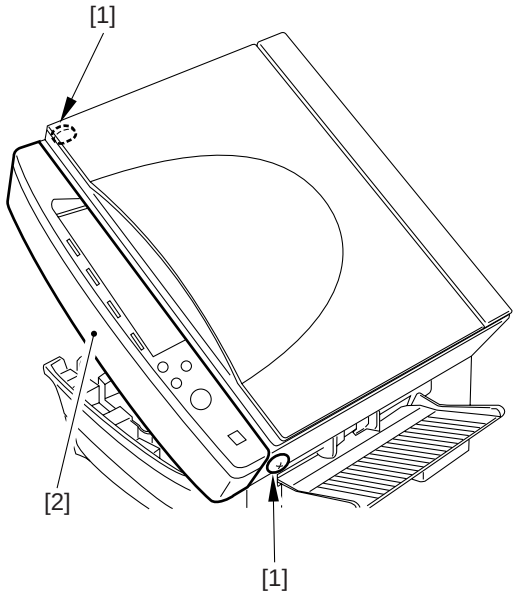

Figure 7-326

3) Disconnect all connectors from the DC controller PCB, remove the screw [3], and free the six claws [4]; then, detach the DC controller PCB [5].

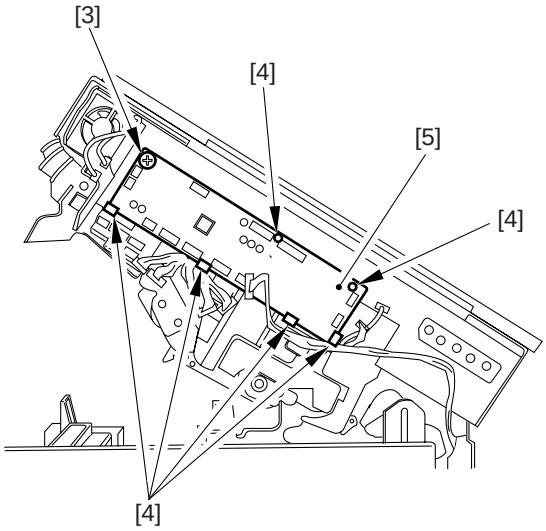

Figure 7-327

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2. Removing the Composite Power Supply PCB

1) Remove the copyboard cover or the ADF.
2) Remove the left cover and the rear cover.
3) Remove the screw [1], and remove the copyboard cover foot retainer [2].

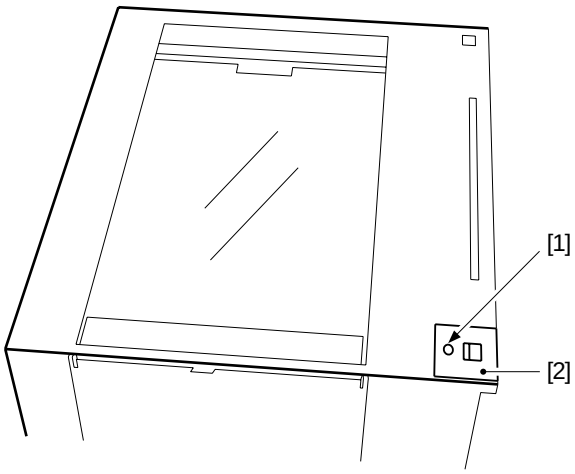

Figure 7-328

4) Disconnect the ten connectors [3] from the composite power supply PCB, and disconnect the connector [4] from the main motor assembly.

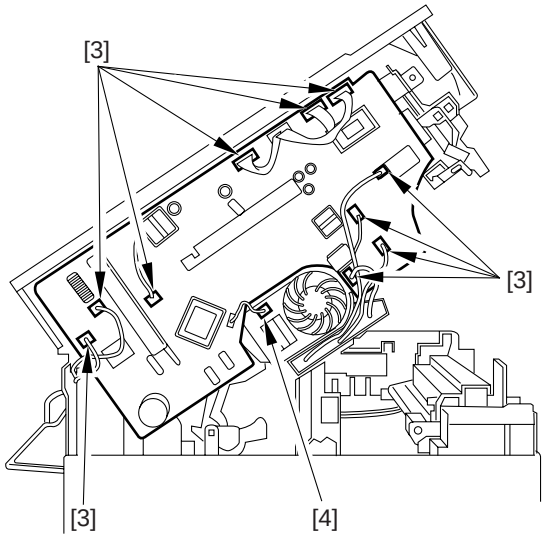

Figure 7-329

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5) Remove the seven screws [5], and free the five claws [6]; then, detach the composite power supply PCB [7].

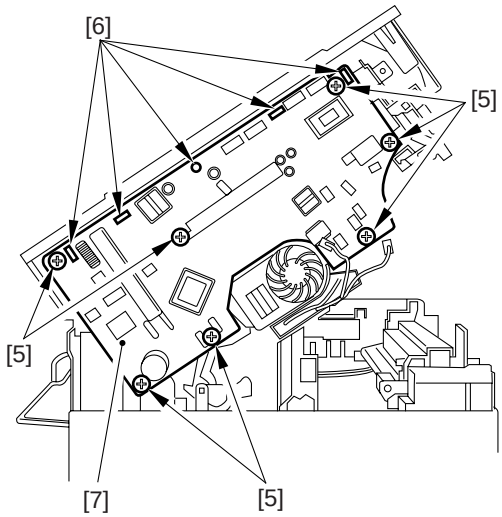

Figure 7-330

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3. Points to Note When Handling the Composite Power Supply PCB

1) Some capacitors on the composite power supply hold charges when the machine's power supply is off.
   Take extra care never to short the terminals of the capacitor whenever you have removed the composite power supply PCB.
2) When handling the PCB, hold its heat radiating plate (at the center) or its both edges. In particular, keep in mind that holding the area indicated by " ⊘ " can cause deformation or cracking of the board.

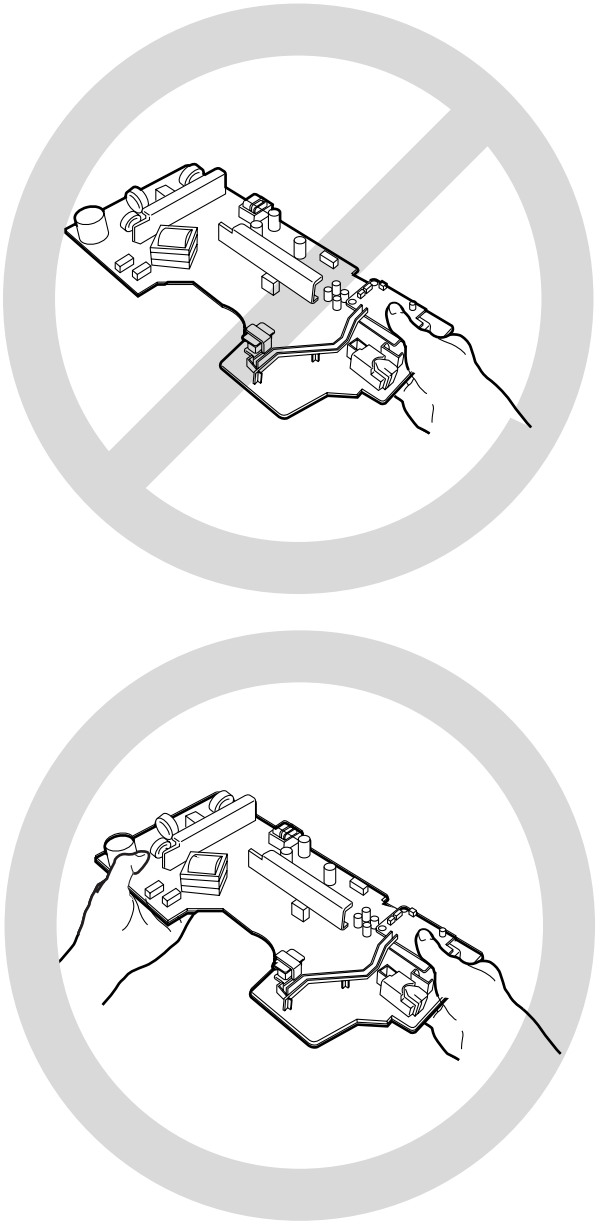

Figure 7-331

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CHAPTER 8

ADF

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I. ADF

A. Outline

The ADF picks up the originals stacked on the original tray starting with the topmost original, moves them through the copyboard, and delivers them.

See Figure 8-101 for an outline of the feeding route.

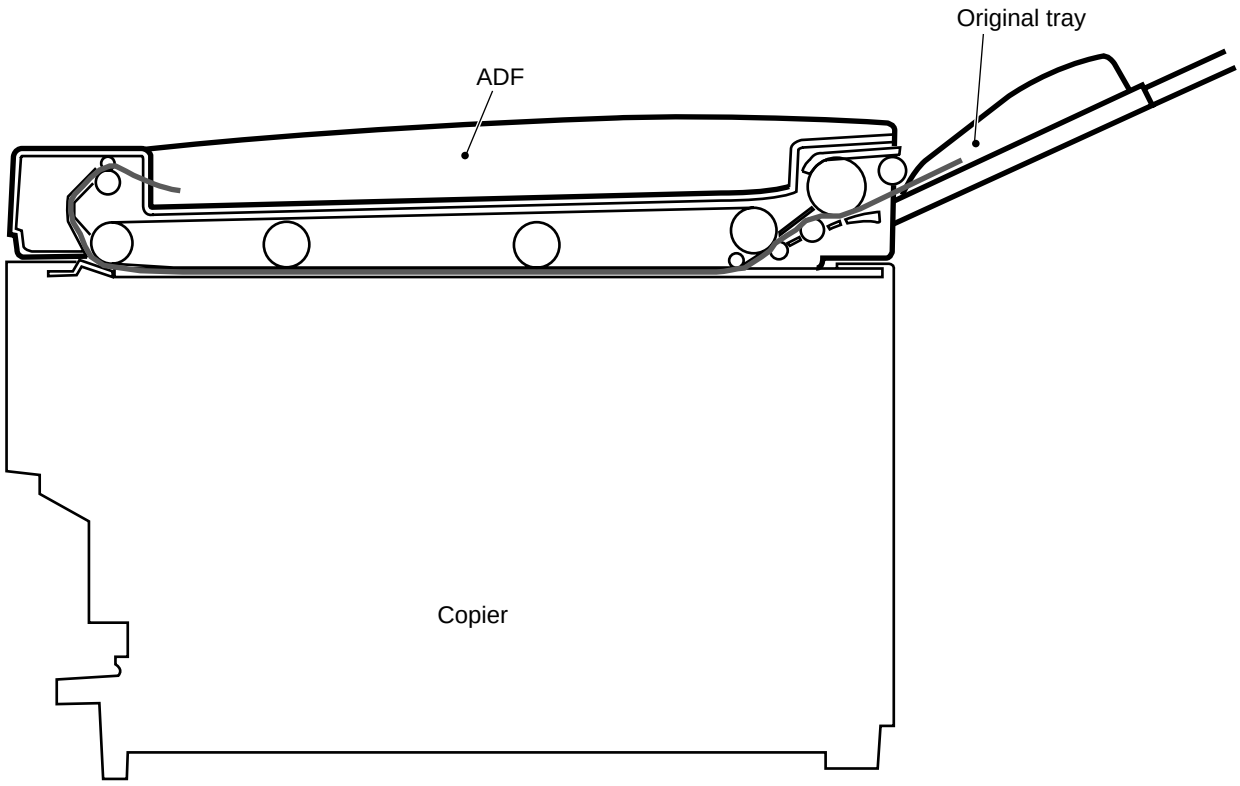

Figure 8-101

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B Basic Construction

1. Outline of the Electric Circuitry

The ADF's major electrical mechanisms are controlled by the CPU on the ADF controller PCB.

The CPU on the ADF controller PCB reads the signals from the sensors and the copier and generates signals to drive the motor at such times as programmed in advance.

The copying modes selected on the copier are communicated to the ADF in serial, and the ADF communicates to the copier the state of feeding originals to the copier in serial. (It does not use an IC for communications.)

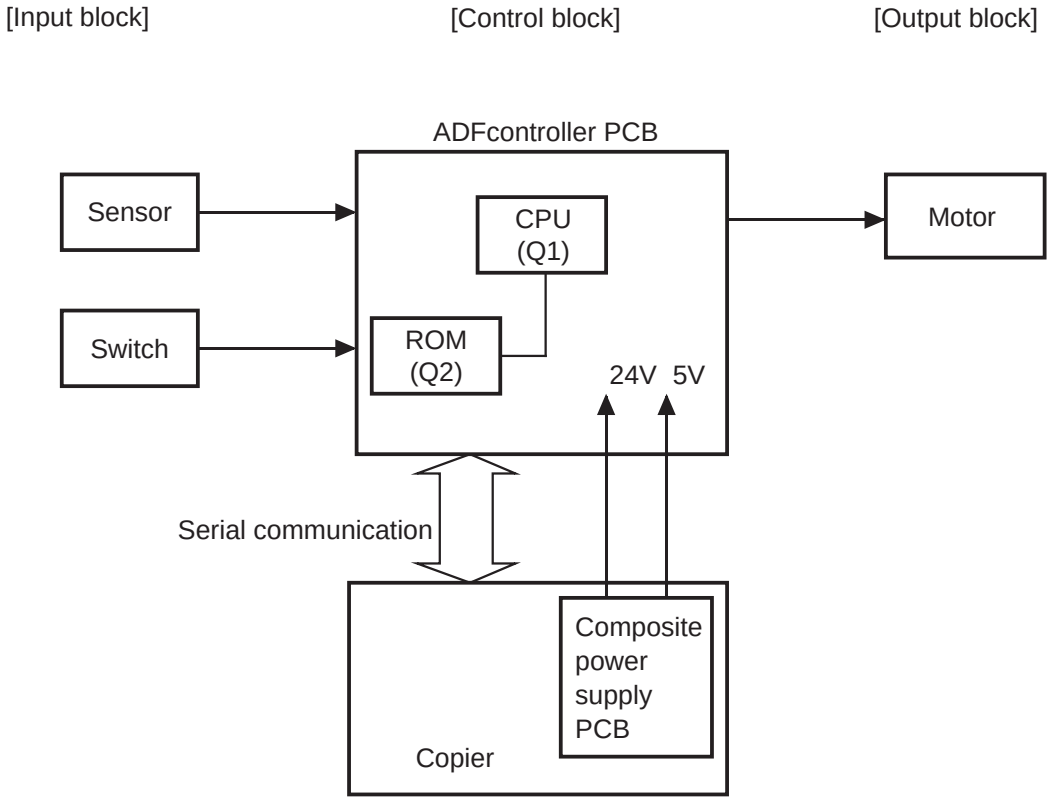

Figure 8-102

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2. Inputs to and Outputs from the ADF Controller PCB

a. Inputs to and Outputs from the ADF Controller PCB (1/1)

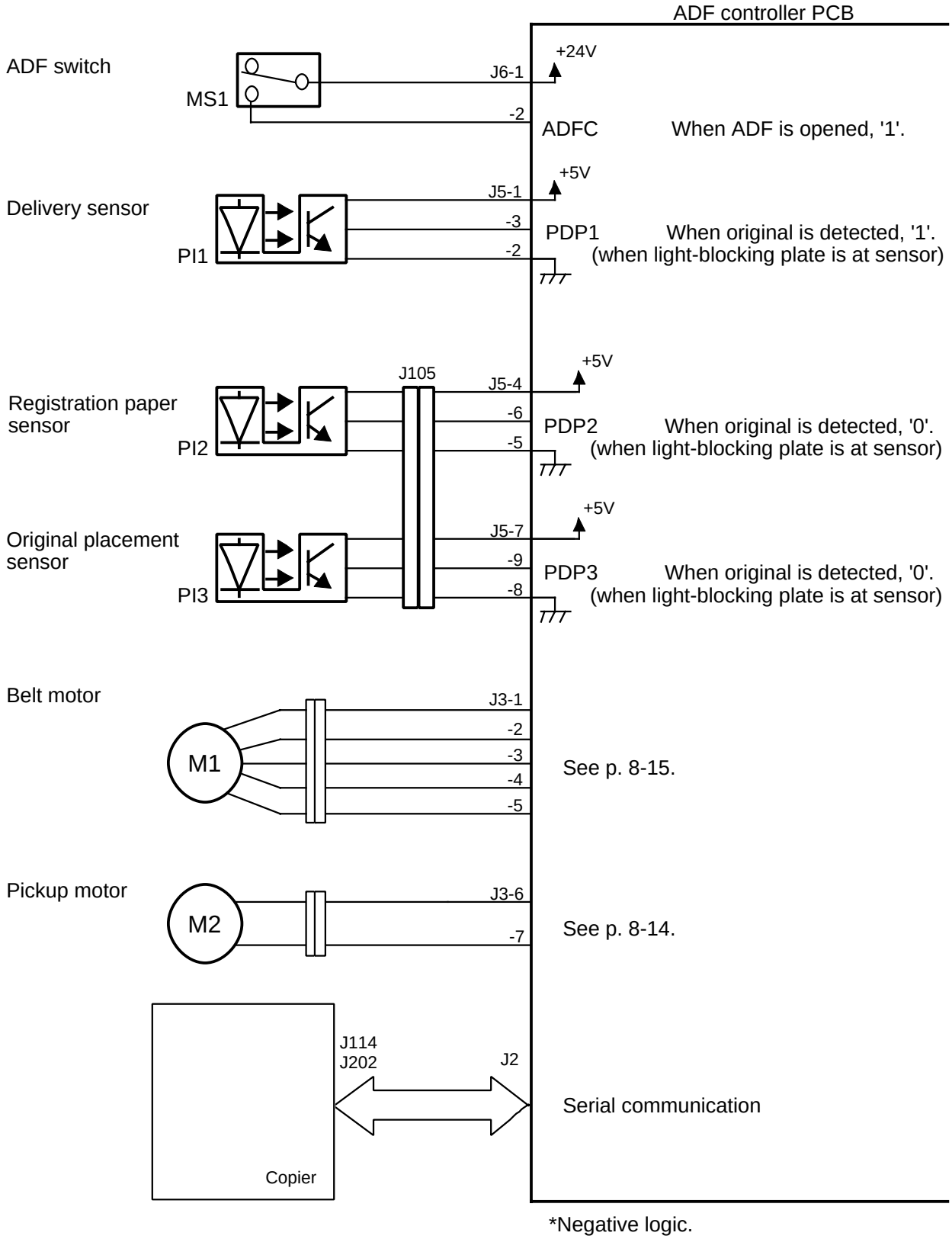

Figure 8-103

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C. Basic Operations

1. Outline

The ADF uses two motors for picking up and delivering originals. The pickup motor (M2) is used to pick up originals, and the belt motor (M1) is used to move, stop, and deliver originals.

Further, the ADF is equipped with three sensors for monitoring the movement of originals.

The ADF is designed to accommodate one-sided original copying mode only.

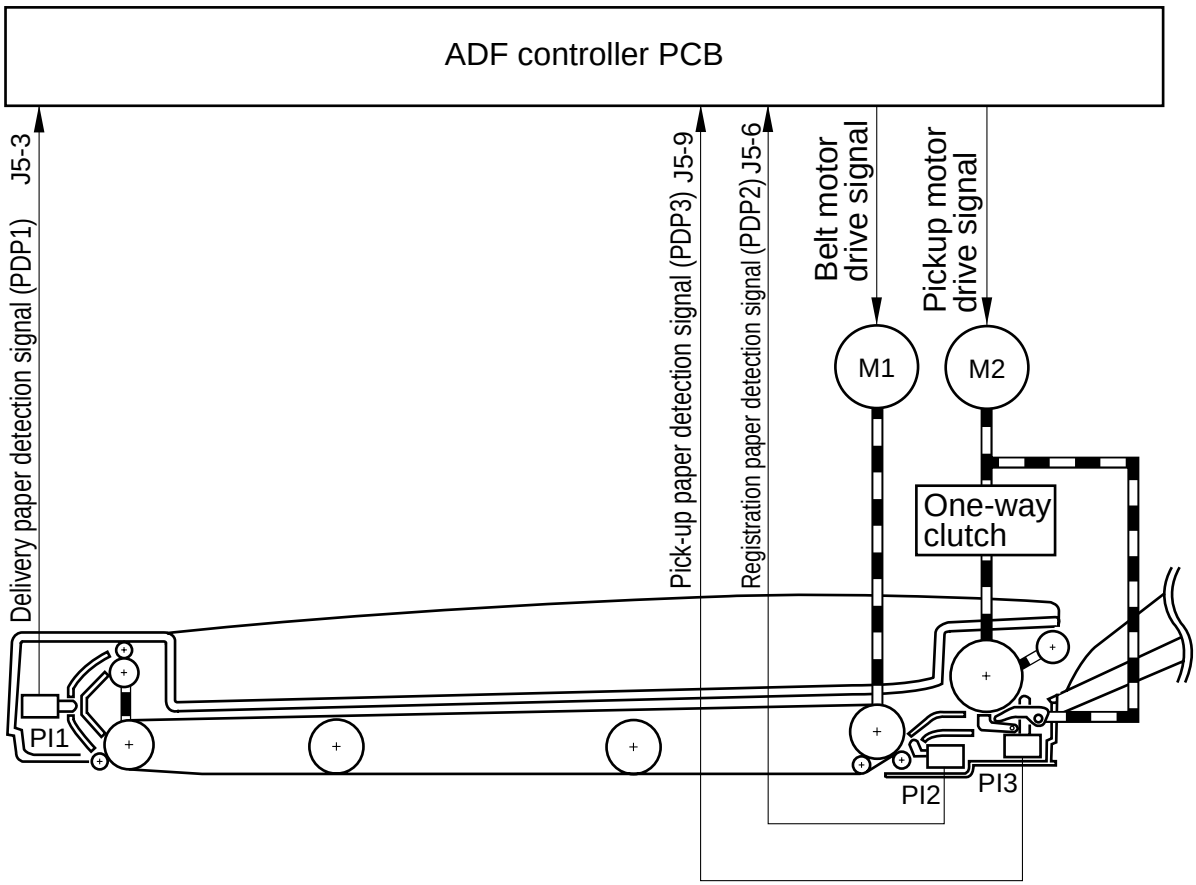

Figure 8-104

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2. One-Sided Original Mode

The ADF picks up originals stacked on the original tray starting with the topmost original; after it picks up an original, it places it on the copyboard glass for copying, moves it away from the copyboard glass, and delivers it to the copyboard glass.

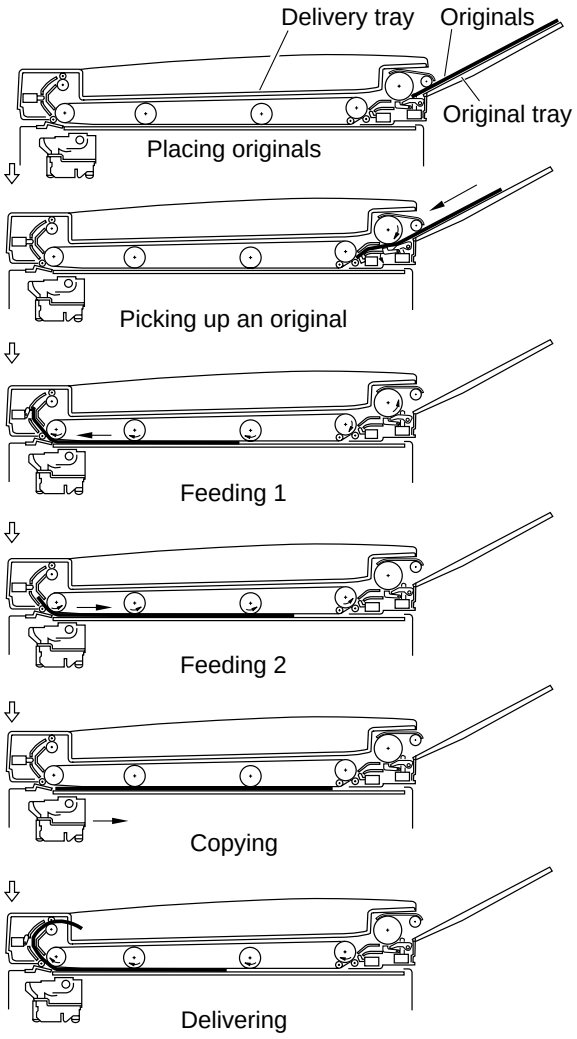

Figure 8-105

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D. Detecting an Original

1. Outline

The ADF's original detection mechanism has the following two functions:

1. Detecting the Presence/Absence of an Original
   Checks whether there is an original on the original tray.
2. Identifying the Length of the Original
   Checks the length of the original placed on the original tray.
3. Detecting the Presence/Absence of an Original
   The original placement sensor (PI3) is used to check the presence/absence of an original.

When an original is placed on the original tray, the original placement sensor (PI3) sends the original detection signal (PDP3) to the ADF controller PCB in response to the movement of the detecting lever away from the sensor.

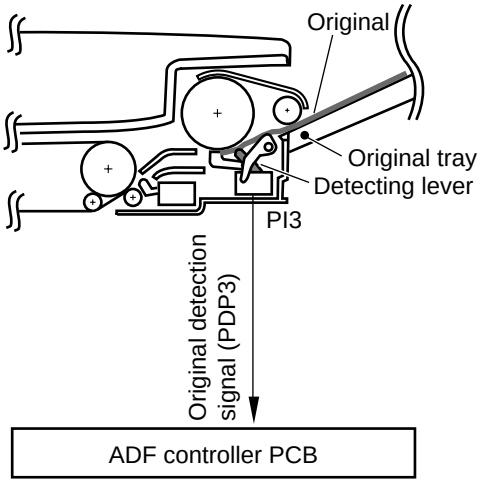

Figure 8-106

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2. Identifying the Length of the Original

The registration paper sensor (PI2) is used to identify the length of the original, if any.

The ADF controller computes the length of the original based on the time it takes for the original to move past the registration paper sensor (PI2).

Using the result of the computation, the ADF controller determines whether the size of the original is A4/LTR or smaller or LGL, thereby switching to the appropriate ADF operation.

Table 8-101 shows the lengths of originals that determines ADF operation sequence.

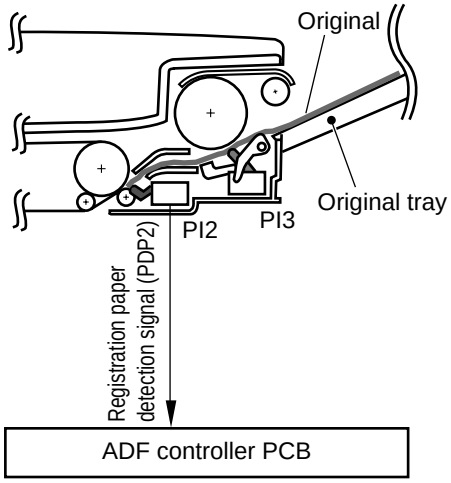

Figure 8-107

Original Lengths and Operation Sequences

Length	Sequence
~313cm	For A4/LTR originals
314cm~	For LGL originals

Table 8-101

E. Pickup Operation

1. Operation

When an original is placed on the original tray and the Copy Start key is pressed, the following sequence of operations takes place:

1 Preparing for PickUp Operation

When an original is placed on the original tray, i.e., the original placement sensor (PI3) turns ON, the pickup roller rotates counterclockwise and the paper guide holds the original in place.

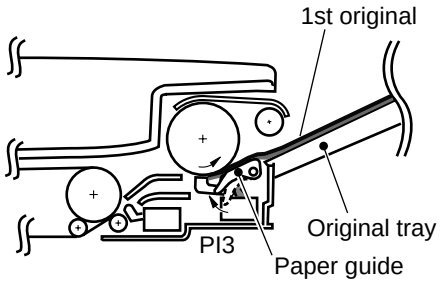

Figure 8-108

2 Pickup Separation

When the Copy Start key is pressed, the pickup roller 1 and 2 rotate clockwise, and pick up the first original (topmost) and forward it as far as the registration roller. (The separation pad ensures that only one original is picked up.)

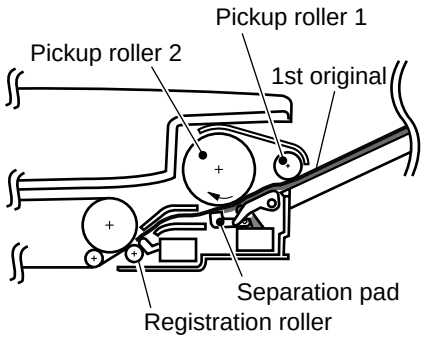

Figure 8-109

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3 Arching

The first original is butted against the registration roller so that it arches.

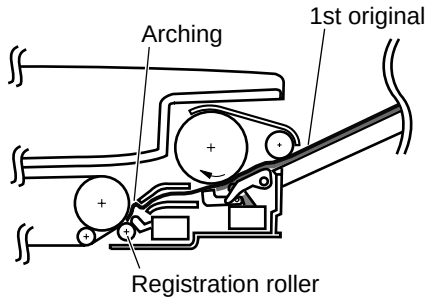

Figure 8-110

4 Feeding Operation 1

The feeding belt is moved so that the leading edge of the first original comes into contact with the delivery sensor (PI1). (In the case of a LGL original, the original is moved about 15 mm farther after it has come into contact with the delivery sensor.)

At the same time, the pickup motor (M2) is rotated counterclockwise to prepare for picking up the second original.

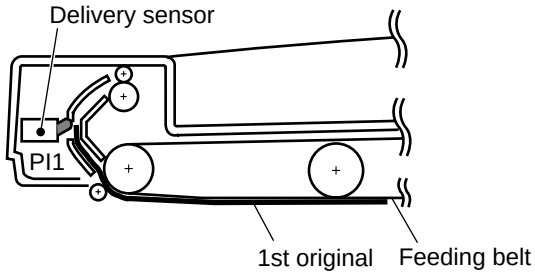

Figure 8-111

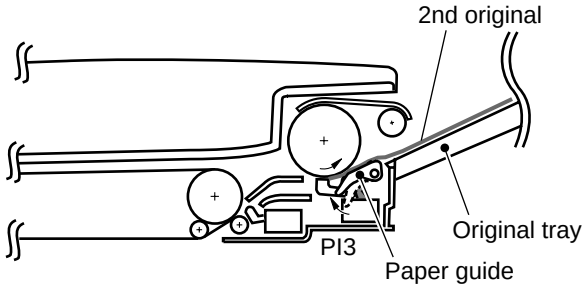

Figure 8-112

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5 Feeding 2

The feeding belt is moved counterclockwise so that the first original is stopped at a specific location on the copyboard glass.

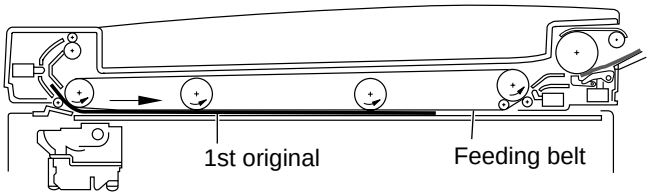

Figure 8-113

6 Moving the Scanner and Picking Up the Second Original

The scanner starts to move forward after the original has been stopped at a specific location on the copyboard glass.

If the original is A4/LTR or smaller, the pickup motor (M2) is also rotated clockwise to pickup the second original and butt it against the registration roller.

If the original is LGL, the second original is picked up after the scanner has been moved forward.

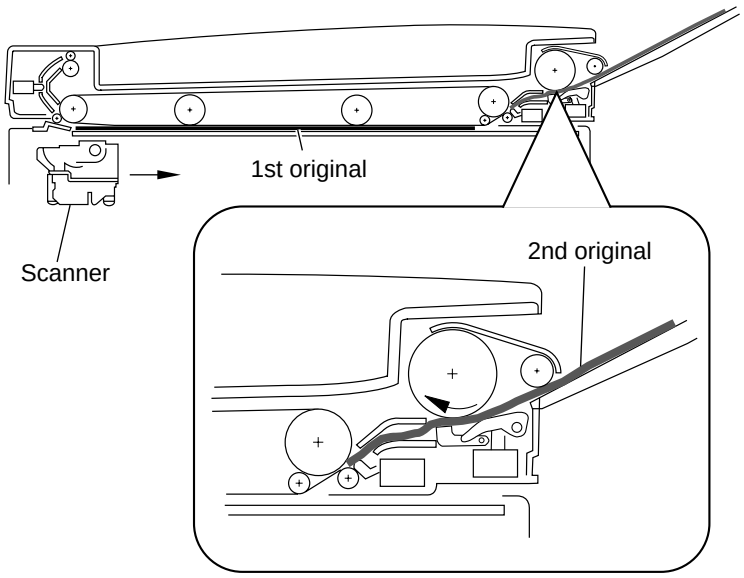

Figure 8-114

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2. Sequence of Pickup Operations (A4/LTR, 2 originals)

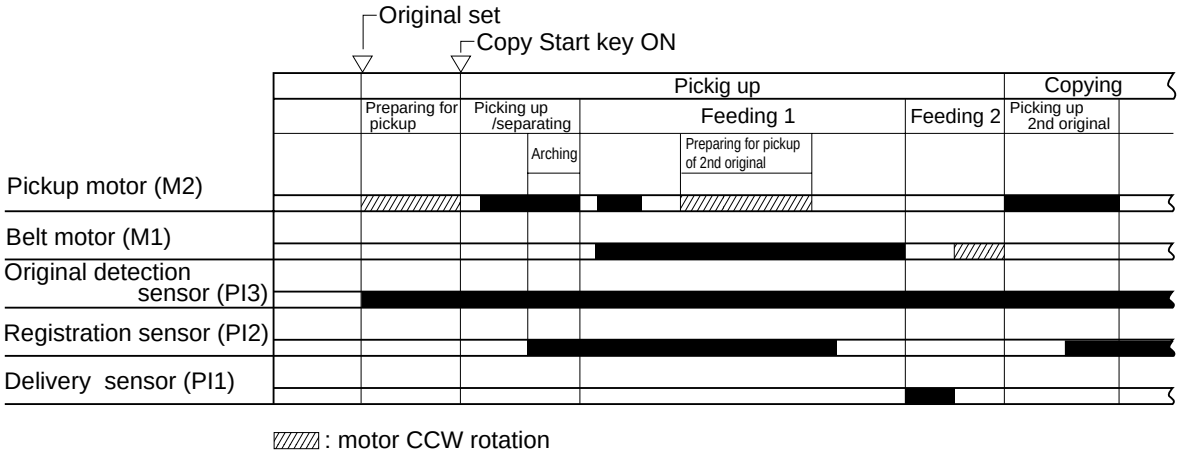

Figure 8-115

3. Sequence of Operations (LGL, 2 originals)

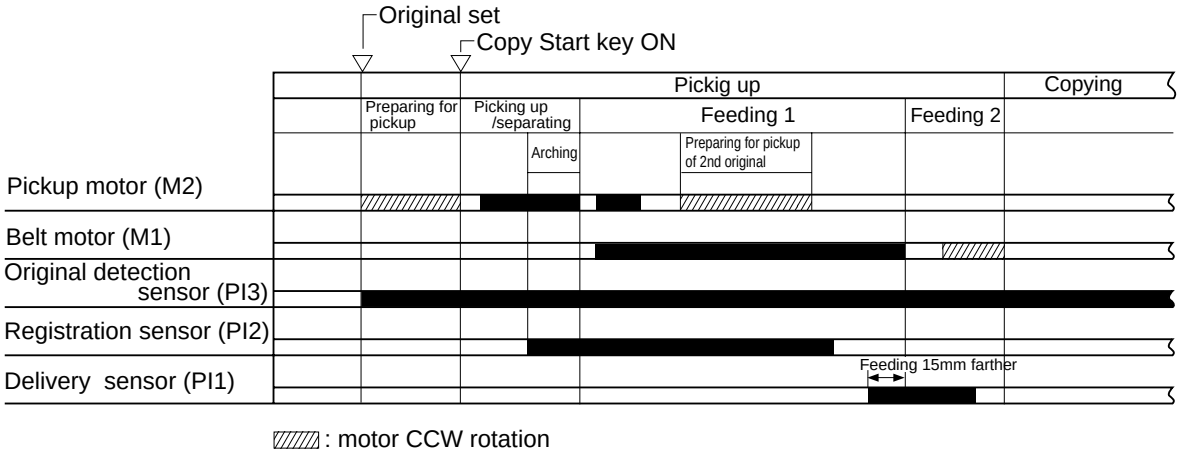

Figure 8-116

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F. Delivery

1. Operations

The ADF operates as follows to deliver originals from the copyboard glass:

1 Delivery Feeding

The feeding belt is moved to feed and deliver the first original on the copyboard glass. At the same time, the pickup motor (M2) moves the second original to the copyboard glass.

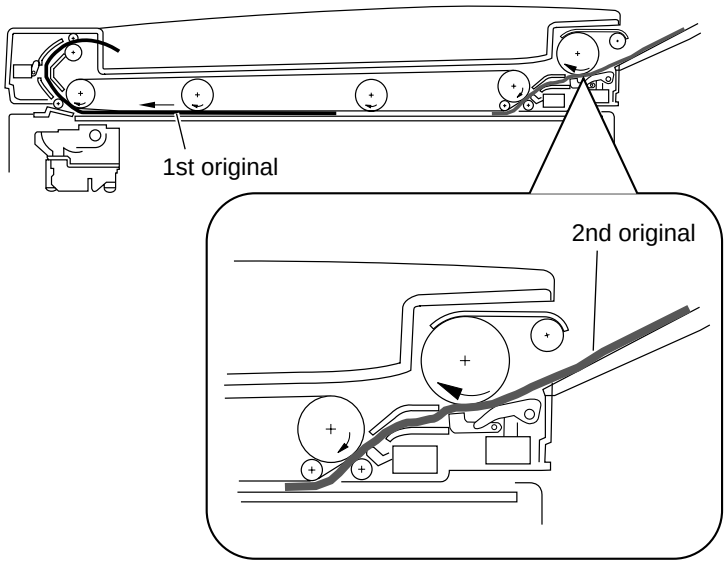

Figure 8-117

2 Delivering to the Delivery Tray

The ADF switches the belt motor to low speed as soon as the trailing edge of the original moves past the delivery sensor (PI1), thereby delivering the original slowly.

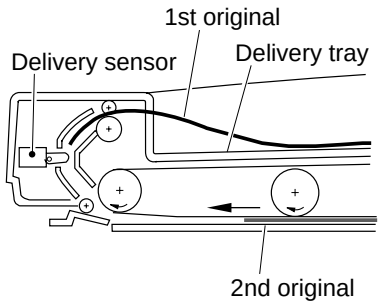

Figure 8-118

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2. Sequence of Operations (A4/LTR, 2 originals)

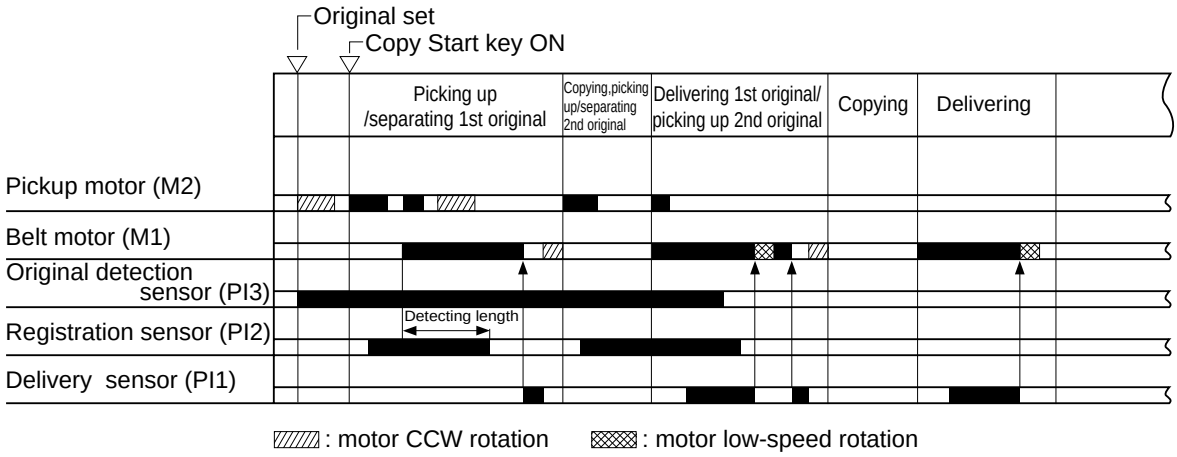

Figure 8-119

3. Sequence of Operations (LGL, 2 originals)

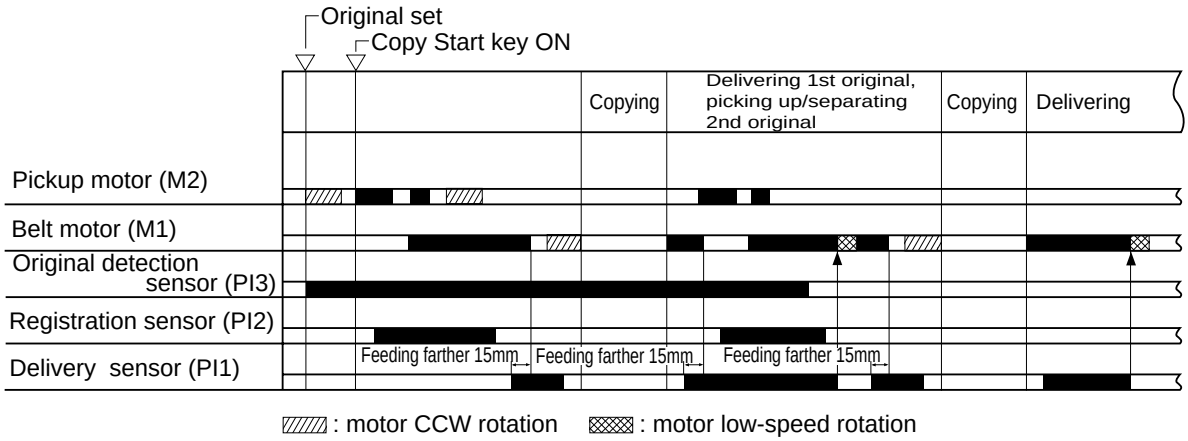

Figure 8-120

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G. Controlling the Pickup Motor

1. Outline

Figure 8-121 is a diagram of the control circuit for the pickup motor (M2).

The pickup motor is a DC motor.

The CPU (Q1) on the ADF controller PCB sends the motor drive signals PM0 and PM1 to the motor driver (Q5). The pickup motor rotates clockwise or counterclockwise according to the combinations of the states of these two signals. (Table 8-102 shows how the pickup motor rotates for each combination.)

The motor driver is equipped with a limiter function, preventing overcurrent from flowing into the motor. When an overcurrent occurs, the limiter function cuts off the motor drive current, thereby preventing damage to the motor.

When the limiter function is activated, the pickup motor cannot rotate as controlled, possibly leading to pickup faults. Any pickup fault causes the ADF controller to flash the JAM indicator on the copier and stop the pickup motor at the same time.

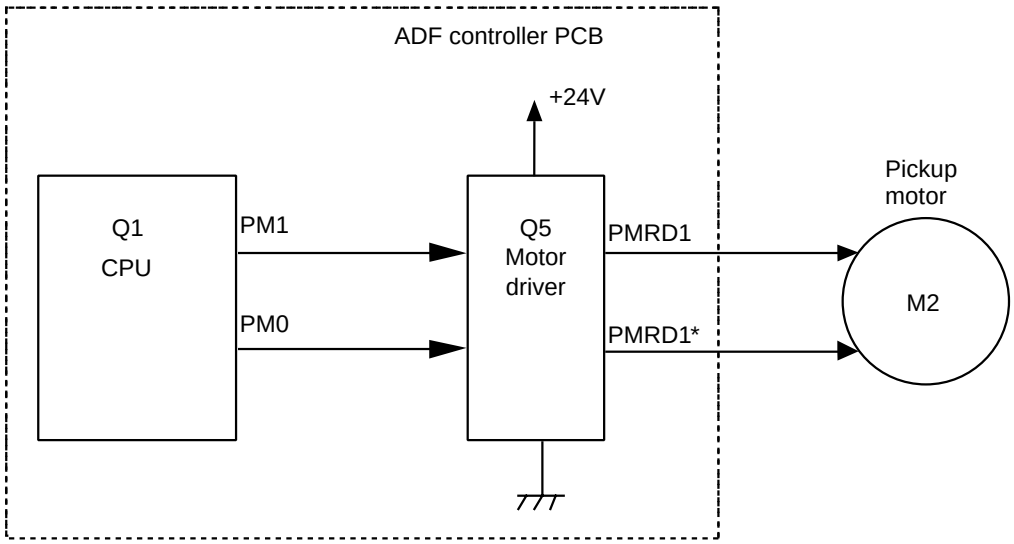

Figure 8-121

Motor drive signal (PM0)	Motor drive signal (PM1)	Pickup roller rotation
'1'	'1'	Braked
'1'	'0'	Picking up
'0'	'1'	Delivering
'0'	'0'	At reset (free)

Table 8-102

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H. Controlling the Belt Motor

1. Outline

Figure 8-122 is a diagram showing the control circuit for the belt motor (M2).

The belt motor is a 4-phase control stepping motor.

The CPU (Q1) on the ADF controller PCB sends control pulse signals (A, A*, B, B*) to the motor driver (Q4).

In response, the motor driver changes the output timing of the pulse signals (MA, MA*, MB, MB*) used for driving the motor to rotate the belt motor clockwise or counterclockwise.

The motor driver is equipped with a limiter function used to keep the motor supplied with a specific current so that current greater than specified will not flow.

If loads large enough to activate the limiter function occur in succession, the belt motor cannot rotate as specified, possibly leading to feeding faults. Any feeding fault will cause the ADF controller to flash the Jam indicator on the controller and stop the belt motor at the same time.

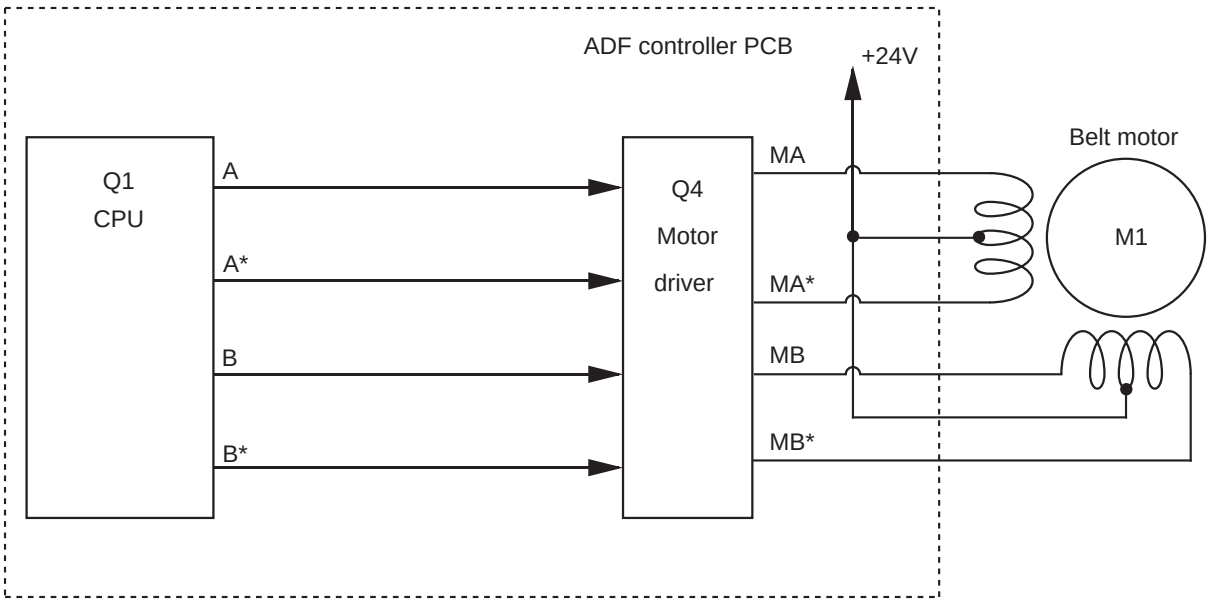

Figure 8-122

I. Detecting Original Jams

The ADF is equipped with three jam sensors (PI1 through PI3) as indicated in Figure 8-123 to monitor the movement of originals.

The movement of originals are checked at such times as programmed in the CPU on the ADF controller PCB; a jam is identified in relation to the presence of an original at each sensor.

Table 8-103 describes the type of jam, condition of detection, and sensors involved.

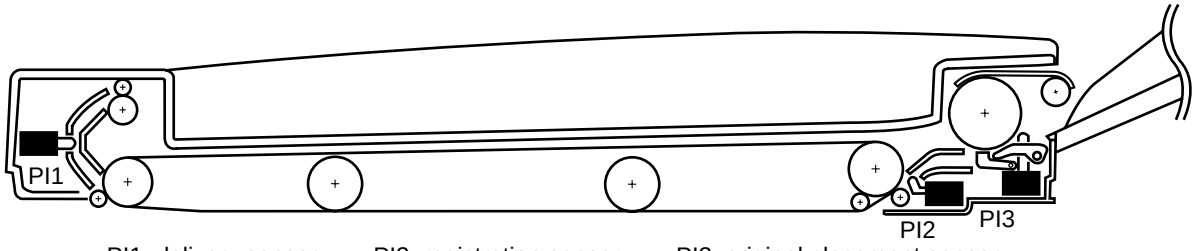

Figure 8-123

Type of Original Jam and Condition of Detection

Operation	Type of jam	Sensor	Conditions
Pickup	Residual original	PI1,PI2	When the 1st original is separated, the delivery sensor (PI1) turns on while the belt motor rotates for 300 ms or less or before the registration sensor (PI2) turns on. When the 1st original is picked up, the registration sensor (PI2) and the delivery sensor (PI1) turn on.
	Original present at start	PI1,PI2	When separation starts, the registration sensor (PI2) or the delivery sensor (PI1) are on.
	Separation delay	PI2	When separation starts, the registration sensor (PI2) does not turn on after 2 sec.
	Pick-up delay	PI2	When pickup starts, the registration sensor (PI2) does not turn off after feeding the original for about 500 mm.
Delivery	ADF open	MS1	The ADF is opened while in operation.
	Delivery delay jam	PI1,PI2	When delivery starts, the delivery sensor (PI1) does not detect an original that has been fed about 100 mm. After the registration sensor (PI2) has turned off, the delivery sensor (PI1) does not detect an original that has been fed for about 500 mm.
	Delivery stationary jam	PI1	During pickup, the delivery sensor (PI1) remains on even when the original is fed for 'length + about 60 mm'.

Table 8-103

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J. Power Supply

1. Outline

Figure 8-124 shows the routes of power supply.

The ADF is supplied by the copier with 5 V and 24 V. The 24V supply is cut off when the ADF is opened, i.e., when the ADF switch (MS1) turns off. The 5V supply will continue to keep each sensor powered even when the ADF is opened.

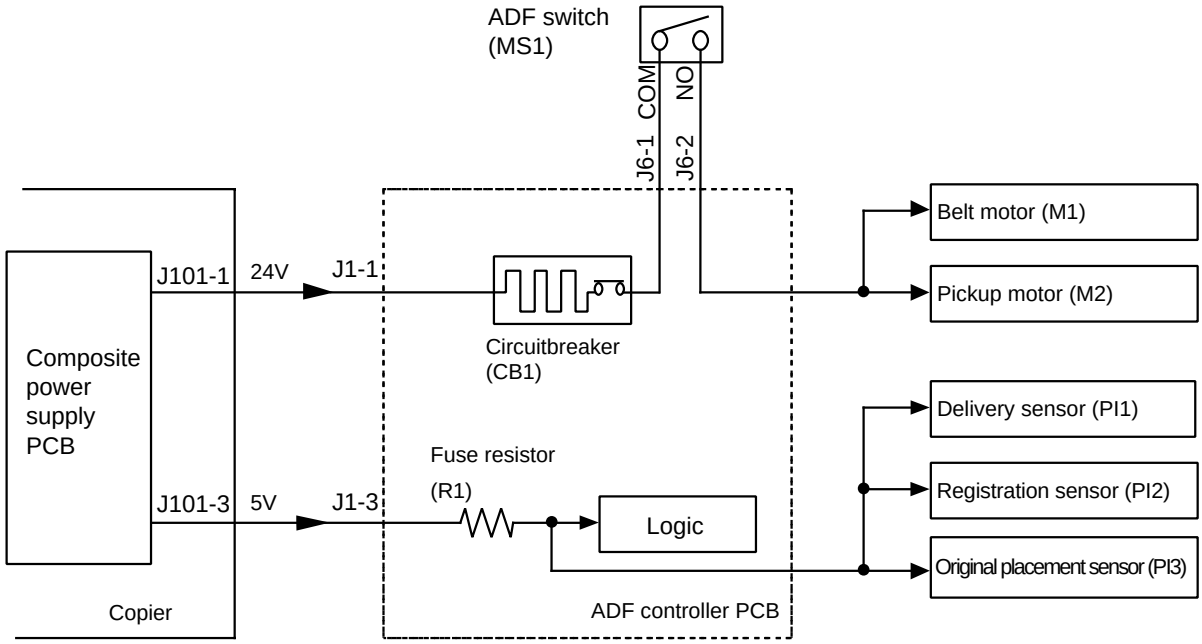

Figure 8-124

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II. DISASSEMBLY/ASSEMBLY

As needed, disassemble/assemble the machine with the following in mind:

1. ⚠ Before starting the work, turn off the power switch and disconnect the power plug for safety.
2. Unless otherwise instructed, assemble the parts by reversing the steps used to disassemble it.
3. Identify the screws by type (length, diameter) and location.
4. Use the washers where necessary. (The screws used to mount the grounding wire and Varistors come with a washer to ensure electrical continuity.)
5. As necessary, cut the harness band.
6. As a rule, do not operate the machine with any of its part removed.
7. A few of the screws used are special screws (with wider thread intervals). Do not use any screws indiscriminately.

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A. Removing the ADF

1) Open the machine's top unit.
2) Free the two claws [1], and slide the left cover [2] to detach.

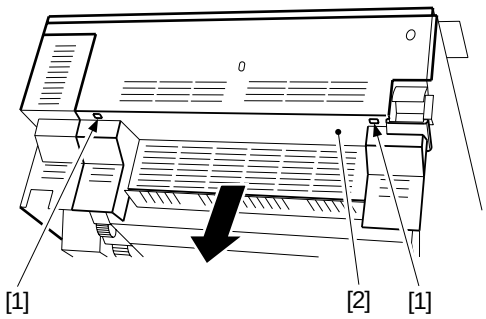

Figure 8-201

3) Remove the screw [3], and free the four claws [4]; then, the detach the rear cover [5].

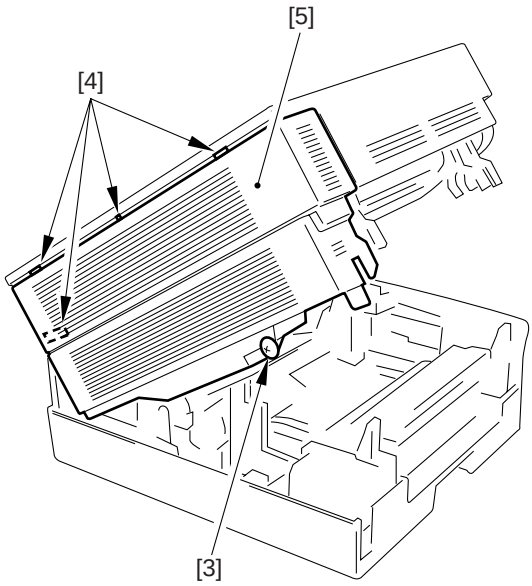

Figure 8-202

4) Close the machine's top unit.
5) Remove the two screws [6], and remove the fixing plate [7].

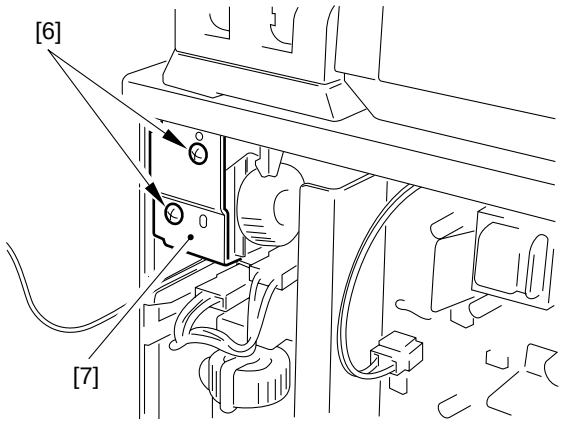

Figure 8-203

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6) Disconnect the two connectors [8], and remove the screw [9]; then, remove the cable bush [10].

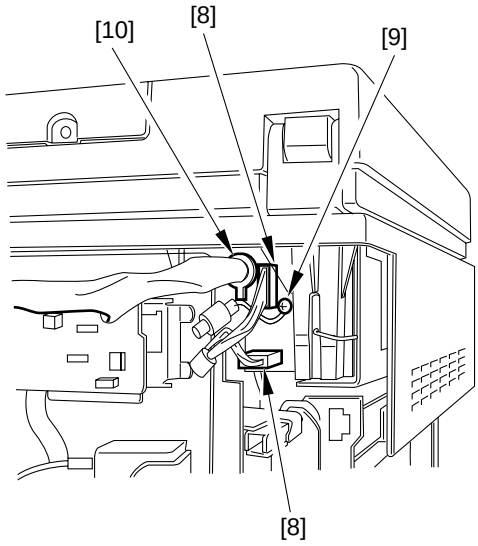

Figure 8-204

7) Remove the two lockpin [11], and remove the ADF from the copier.

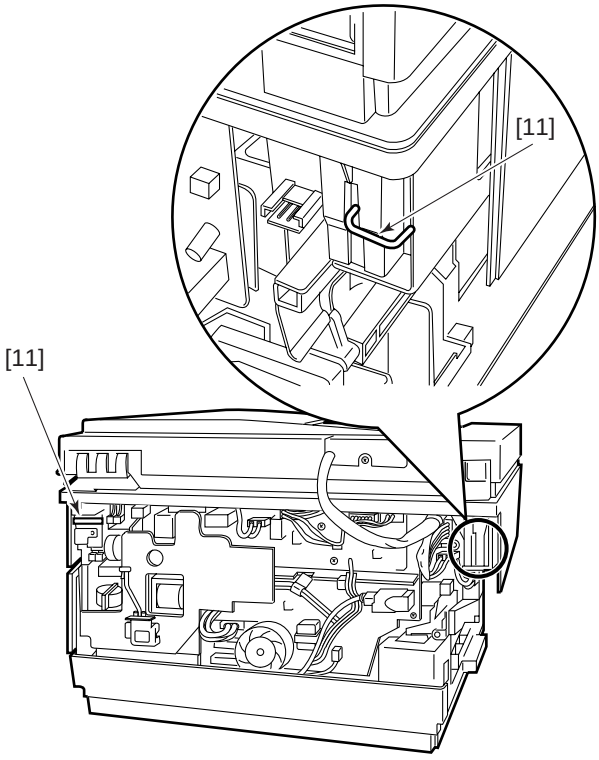

Figure 8-205

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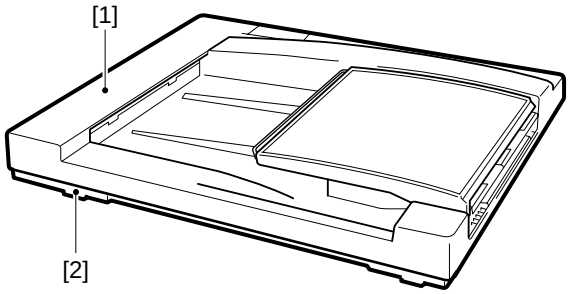
B. External Covers



[1] Upper cover [2] Lower cover

Figure 8-206

Remove the covers as follows when cleaning, checking, or repairing the inside of the machine:

1) Remove the ADF from the copier. (See “A. Removing the ADF.”)
2) Remove the feeding roller [1] from the bushing [2].

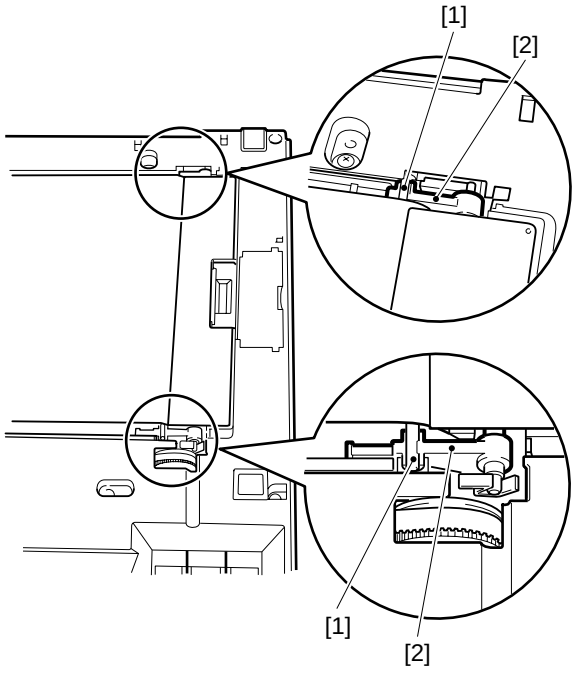


Figure 8-207

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3) Remove the six screws [3], and separate the lower cover [4] from the upper cover [5].

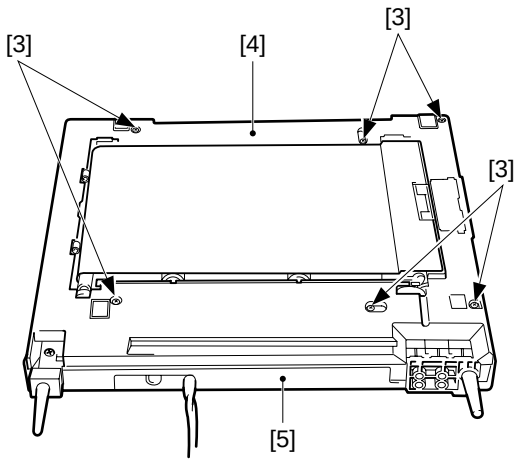

Figure 8-208

4) Disconnect the connector [6], and remove the lower cover [4].

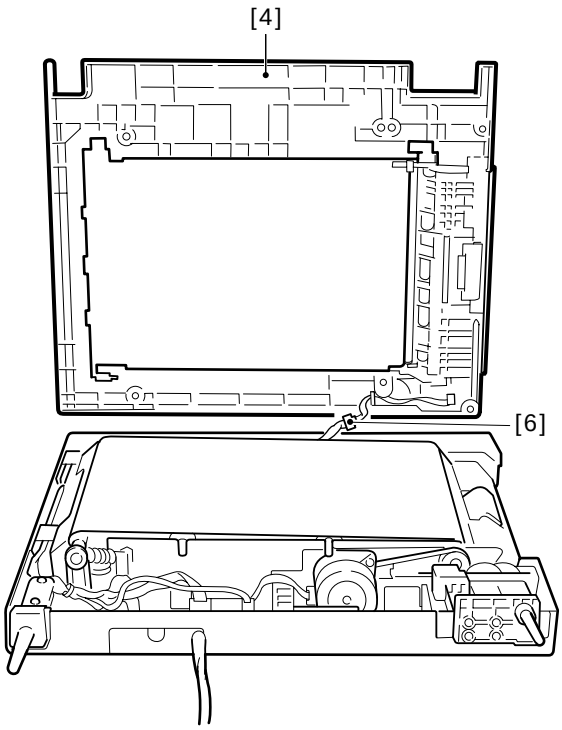

Figure 8-209

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C. Drive System

1. Drive Unit

1) Remove the lower cover.
(See “B. External Covers.”)
2) Remove the screw [1] and the bushing [2]; then, remove the pickup roller cover [3].

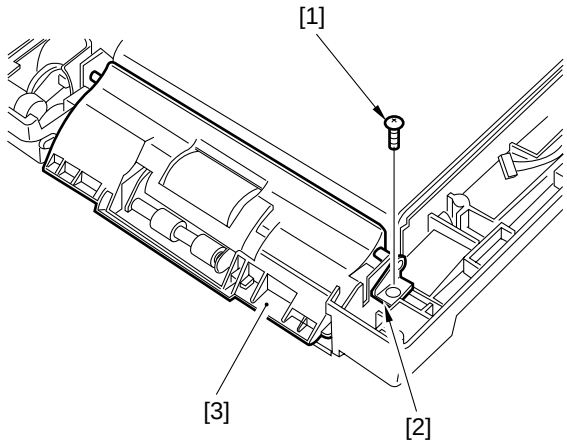

Figure 8-210

3) Remove the E-ring [4], and remove the bearing [5].

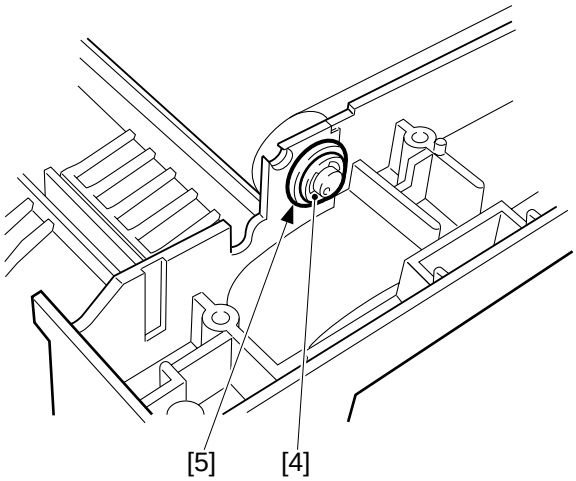

Figure 8-211

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4) Remove the timing belt [6], and remove the feeding belt roller [7] by shifting it in the direction of the arrow.

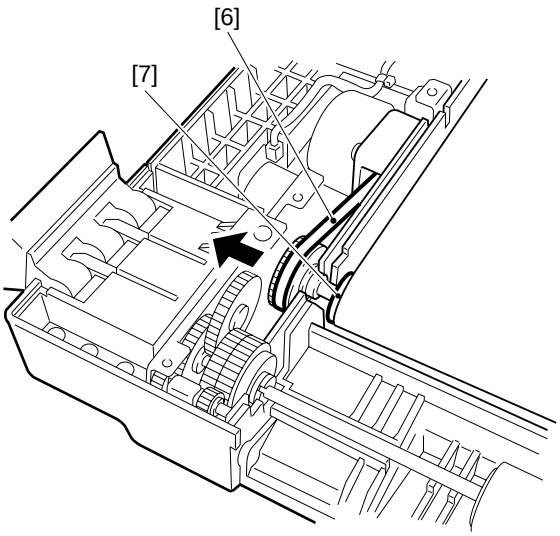

Figure 8-212

5) Remove the five screws [9], and remove the right hinge unit [8].

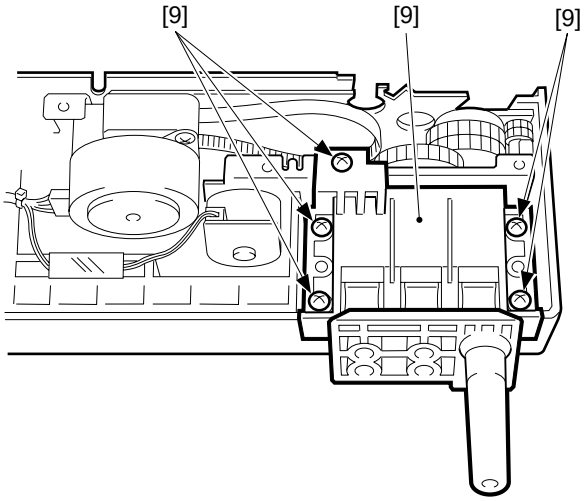

Figure 8-213

6) Remove the stop ring [10] (resin) and the bushing [11].

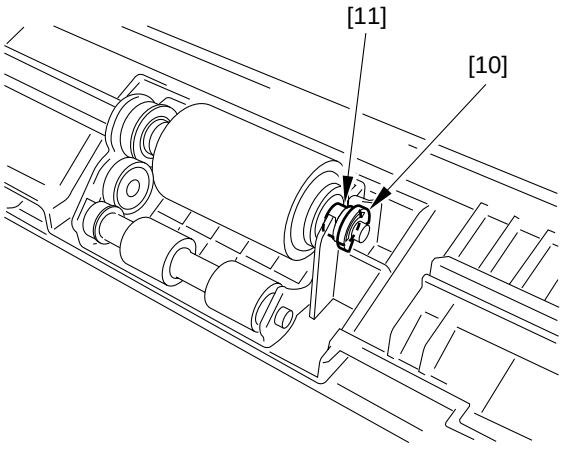

Figure 8-214

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7) Disconnect the two connectors [12], and remove the five screws [13]; then, remove the drive unit [14].

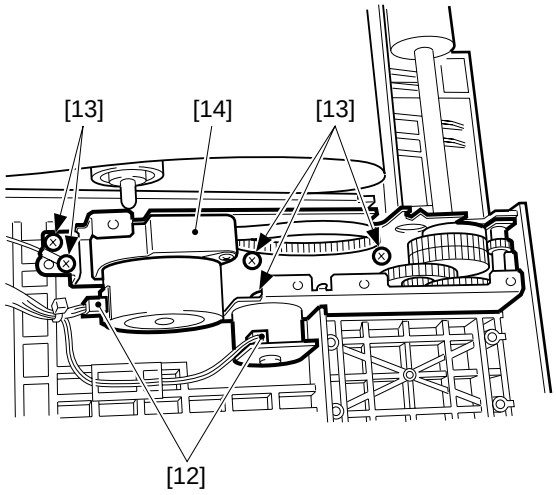

Figure 8-215

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D. Feeding System

1. Pickup Roller

1) Remove the drive unit [1]. (See “C.1. Drive Unit.”)

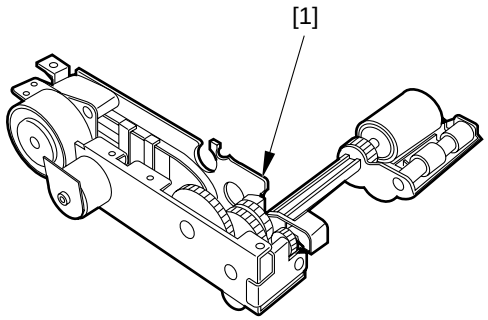

Figure 8-216

2) Remove the E-ring [2], and remove the shaft [3]; then, detach the pickup roller 1 [4].

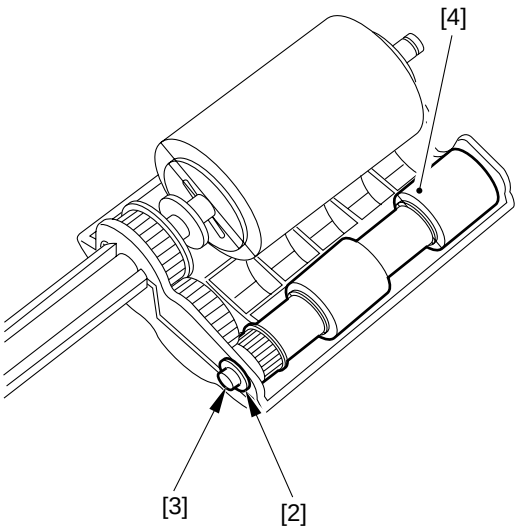

Figure 8-217

3) Remove the stop ring [5].

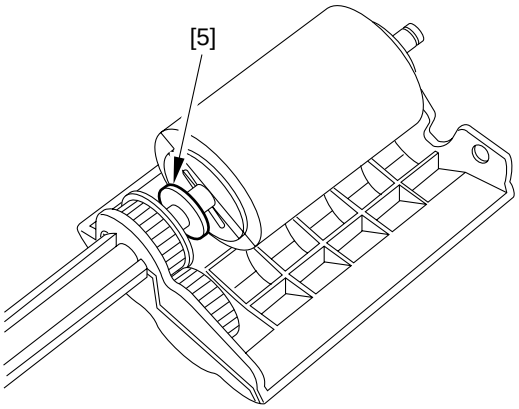

Figure 8-218

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4) Remove the two straight pins [6], and remove the pickup roller 2 [8] while moving the cover [7] in the direction of the arrow.

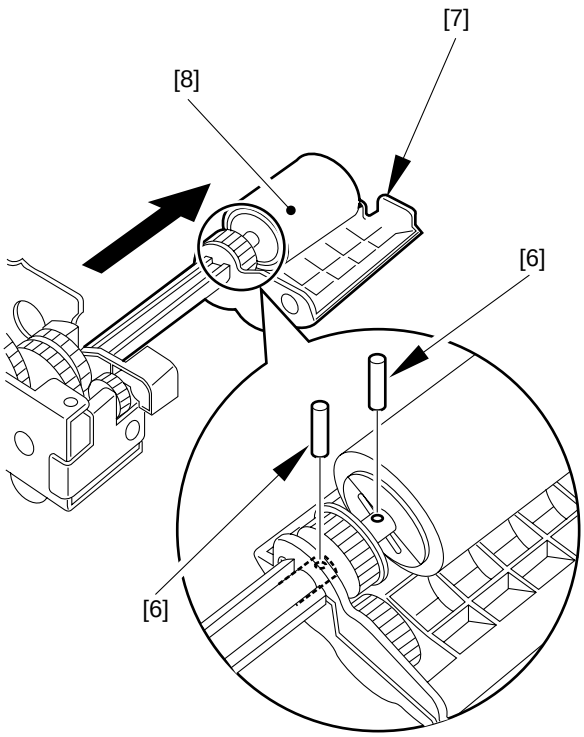

Figure 8-219

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2. Registration Roller

1) Remove the lower cover.
(See “B. External Covers.”)
2) Remove the link arm [1] from the registration roller shaft [2] by turning the link arm.

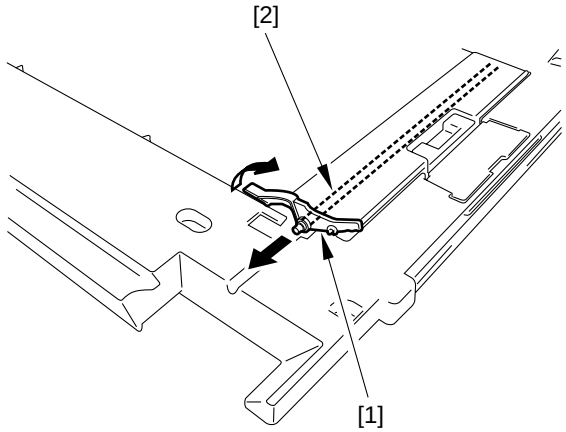

Figure 8-220

3) While pushing the bushing [3] in the direction of the arrow, pull out the registration roller shaft [2] slowly.

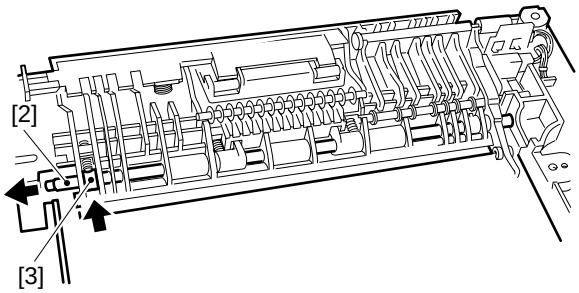

Figure 8-221

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3. Feeding Belt

1) Remove the lower cover.
   (See “B. External Covers.”)
2) Remove the two tension springs [1].

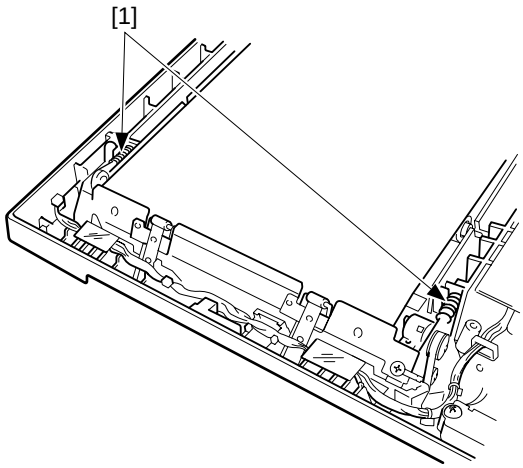

Figure 8-222

3) Remove the E-ring [2], and remove the bearing [3].

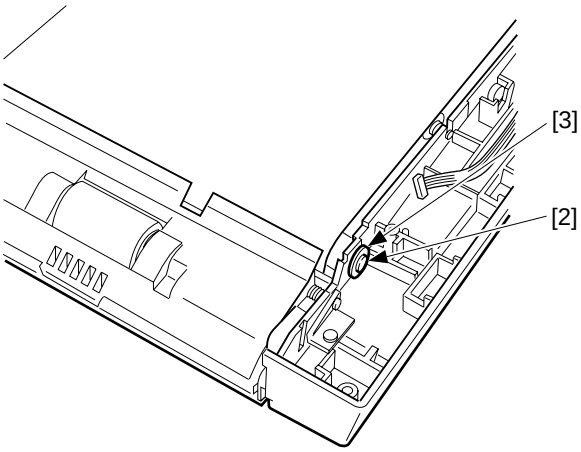

Figure 8-223

4) Remove the timing belt [4], and remove the feeding belt drive roller [5] by moving it in the direction of the arrow.

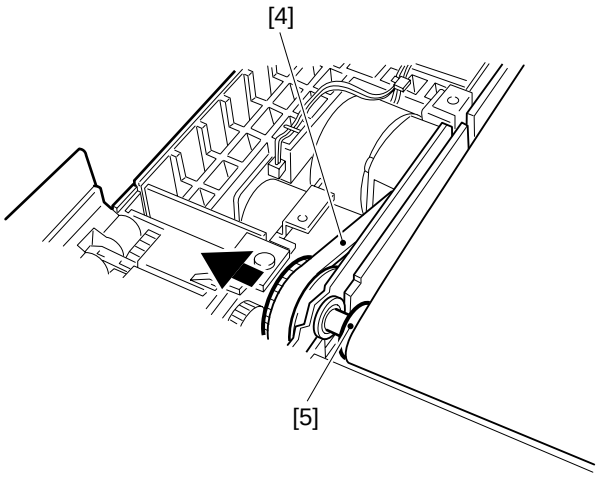

Figure 8-224

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5) Remove the two equalizer spring [6] and the two feeding belt rolls [7].

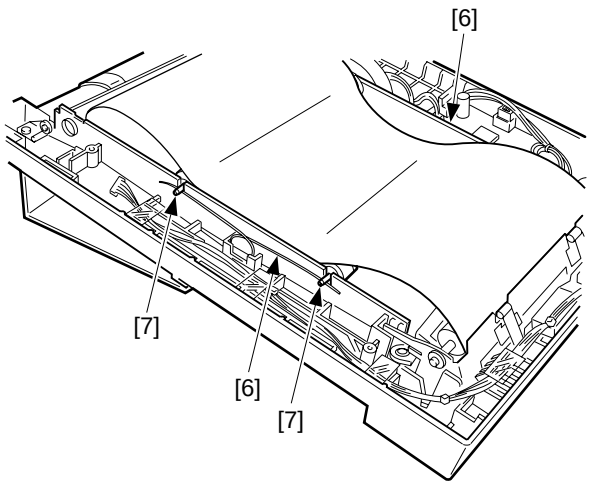

Figure 8-225

6) Remove the two screws [9], and remove the delivery sensor unit [8].

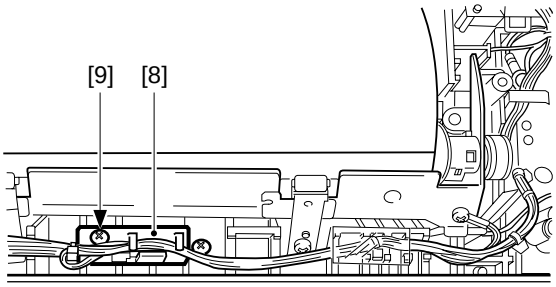

Figure 8-226

7) Remove the stop ring [10] (made of resin); then, remove the bushing [11].

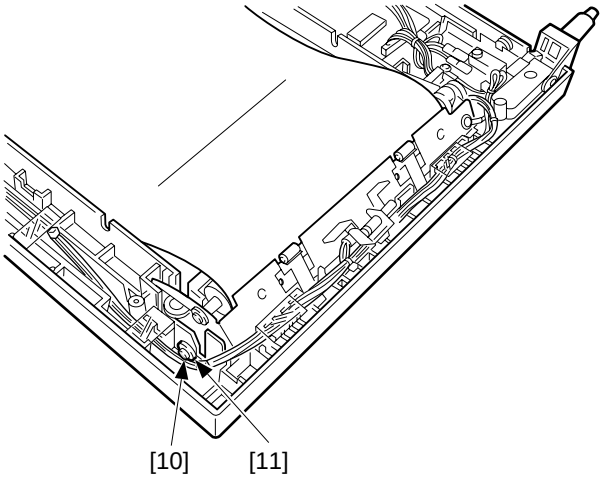

Figure 8-227

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8) Remove the screw [12], and remove the grounding wire [13]; then, remove the delivery roller unit [14] by moving it in the direction of the arrow.

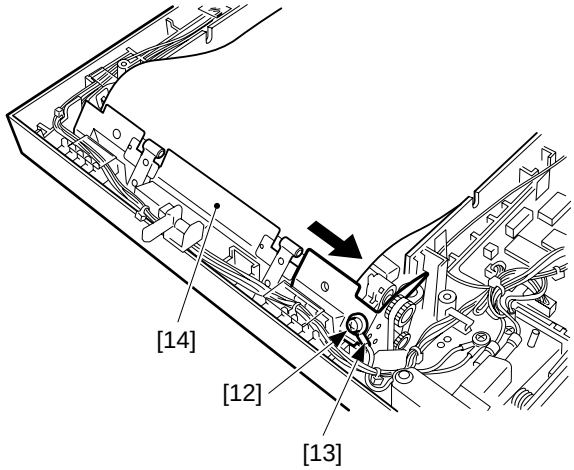

Figure 8-228

9) Remove the screw [15], and remove the static eliminating brush [16].

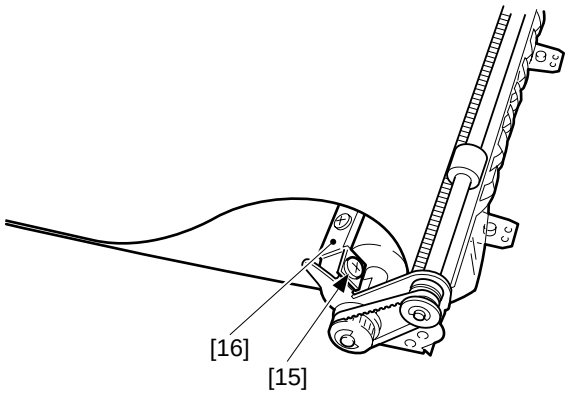

Figure 8-229

10) Remove the two E-rings [17]; then, remove the timing belt [18], gear [19], and two bushings [20].

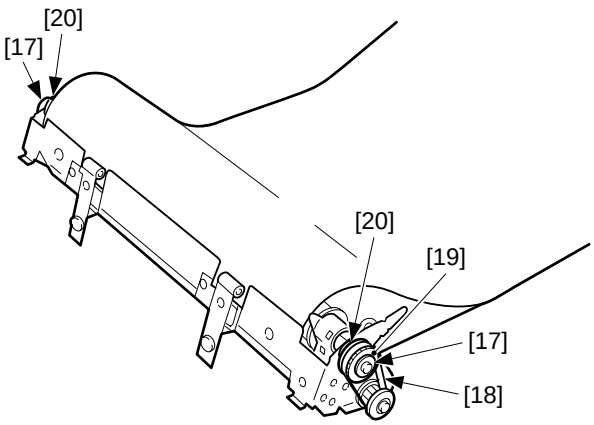

Figure 8-230

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11) Pull out the actuator [21] in the direction of the arrow; then, remove the feeding belt link roller [22], and remove the feeding belt [23].

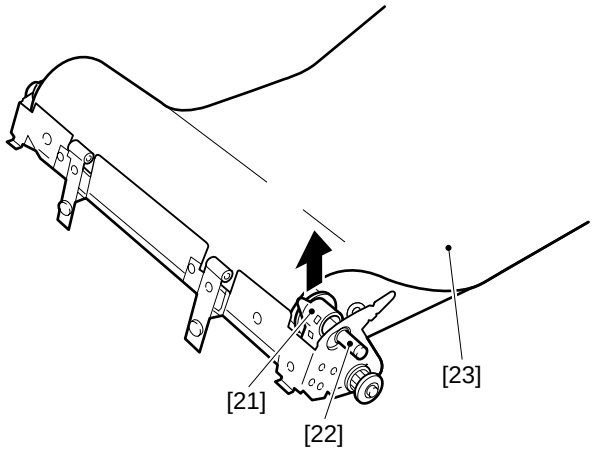

Figure 8-231

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E. Electrical System

1. ADF Controller PCB

1) Remove the lower cover.
(See “B. External Covers.”)
2) Disconnect the five connectors [1], and remove the two screws [2]; then, remove the ADF controller PCB [3].

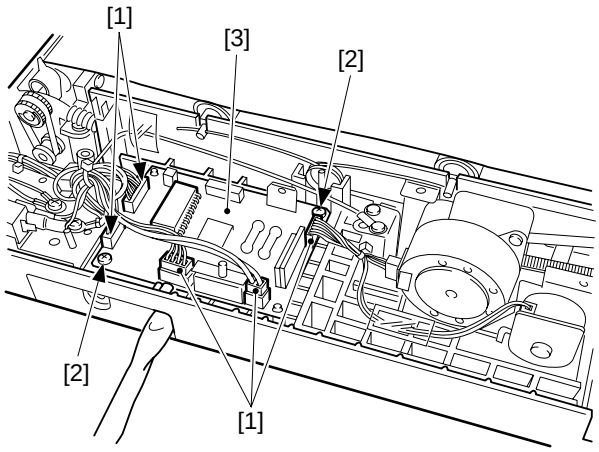

Figure 8-232

2. Original Placement Sensor and Registration Paper Sensor

Pay attention to the colors of the cables and connectors when connecting the connectors of the original placement sensor and the registration paper sensor.

Sensor	Cable color
Original placement sensor	Purple
Registration paper sensor	Yellow

Table 8-201

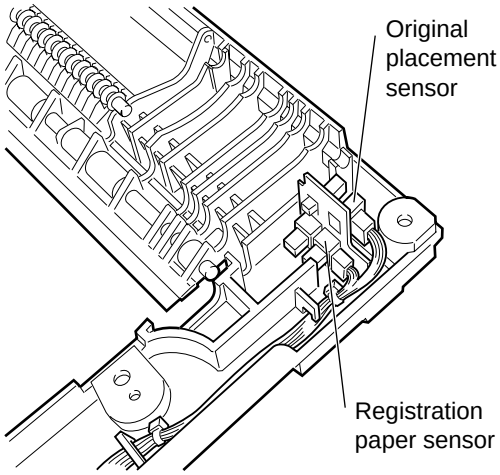

Figure 8-233

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CHAPTER 9

INSTALLATION

I. SELECTING A SITE 9-1
II. UNPACKING AND INSTALLATION 9-2
A. Unpacking and Installation 9-2
B. Placing Copy Paper 9-9
III. MOVING THE MACHINE 9-12

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I. SELECTING A SITE

Keep the following in mind when selecting a site for installation; if possible, visit the user's before delivery of the machine:

- The site offers a power outlet whose rating is as specified (±10%) and which may be used exclusively for the machine.
- The site is between 7.5°C/45.5°F and 32.5°C/90.5°F in temperature and between 5% and 85% in humidity. Avoid an area near water faucets, water boilers, humidifiers, and refrigerators.
- Avoid areas near sources of fire. The site must not be subject to ammonium gas or direct rays of the sun. (As necessary, provide curtains.)
- The site must be well ventilated.
  The level of ozone generated by the machine should not affect the health of people around it. Some, however, may find the odor to be rather unpleasant, and ventilation is a very important factor.

- The floor of the site must ensure that the machine's feet will remain in contact, and will hold the machine level.
- The machine must be at least 10 cm/3.9 in. away from any wall, and there must be adequate space for work involving the machine.

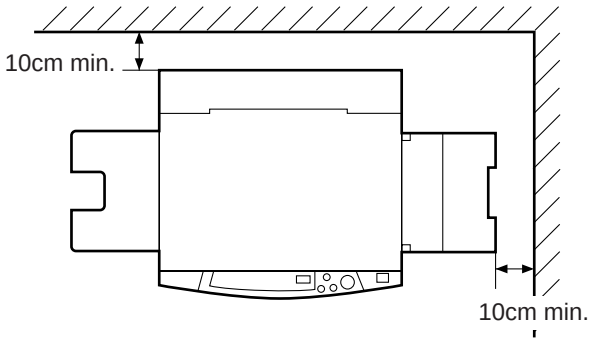

Figure 9-101

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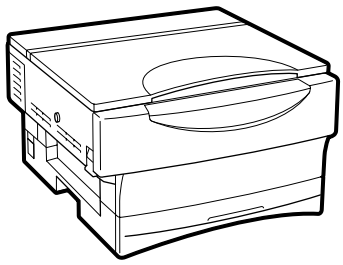
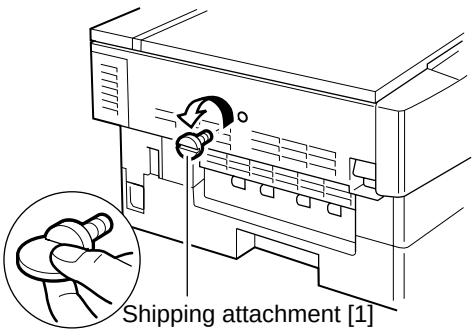
II. UNPACKING AND INSTALLATION

When a piece of metal is brought in from a cold to warm place, droplets of water tend to form on its surface. This phenomenon is known as “condensation” and, in copiers, can cause blank copies.

If the machine has been brought in from a cold place, leave it alone at least for one hour before starting to install it.

A. Unpacking and Installation

Step	Work	Checks and remarks
1	Take out the copier and the attachments from the shipping box, and check to make sure that none is missing:	• Cassette • Copy tray • Power cord • ADF auxiliary tray (ADF type only) • User's Manual • Manual feed tray (for some areas only) • Language label for cassette (included with universal cassette) • Language label for ADF (ADF type only)
2	Remove the packaging bag and all fixing tape.	
3	Remove the shipping attachment [1] (gold-colored screw) from the left of the machine.	 You will be storing the shipping attachment [1] inside the machine in step 9.

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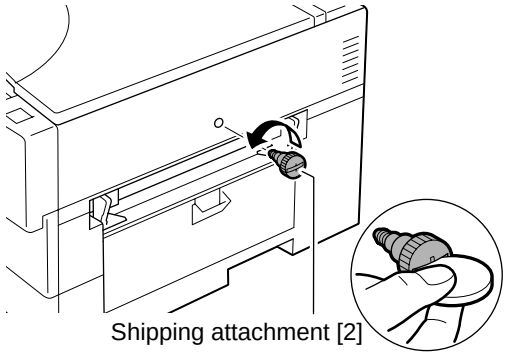
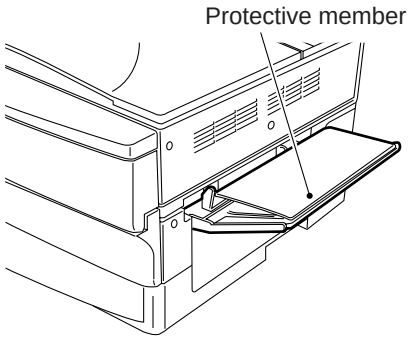
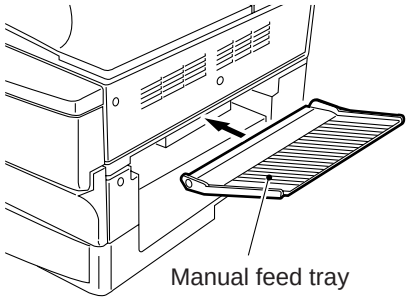
Step	Work	Checks and remarks
4	Remove the shipping attachment [2] (black screw) from the right side of the machine.	 You will be storing the shipping attachment [2] inside the machine in step 9.
5	Take out the protective member from the manual feed tray. (Multifeeder type only) Caution: This step applies only if the manual feed tray is attached.	
	Attach the manual feed tray that comes with the machine. (Multifeeder type only) Caution: This applies only if the manual feed tray comes packaged with the machine.	

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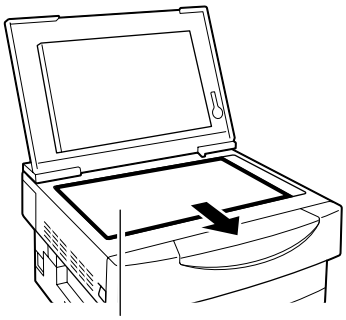
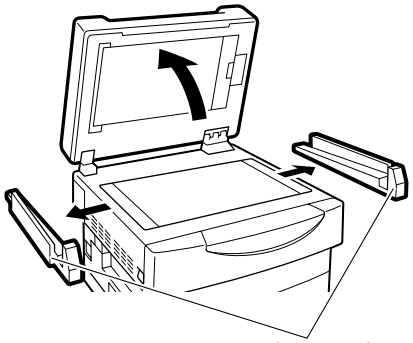
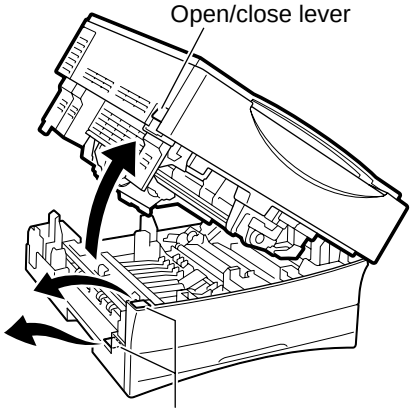
Step	Work	Checks and remarks
6	Open the copyboard cover, and remove the protective sheet. (Copyboard type only) Caution: If the protective sheet is not fond on the machine, go to the next step.	 Protective sheet
	Open the ADF, and remove the protective members. (ADF type only) Caution: You will need this protective member when relocating the machine. Be sure to store it away appropriately.	 Protective members
7	Pull the open/close lever found on the left of the machine to open the machine's top unit; then, remove the two protective members. Caution: If the protective member is not found on the machine, go to the next step.	 Open/close lever Protective member

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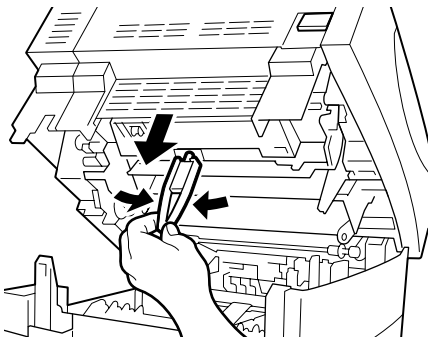
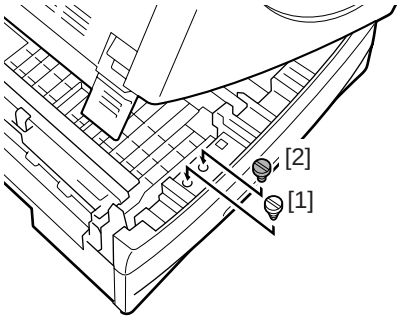
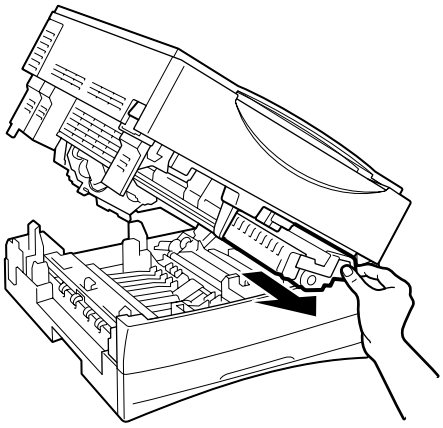
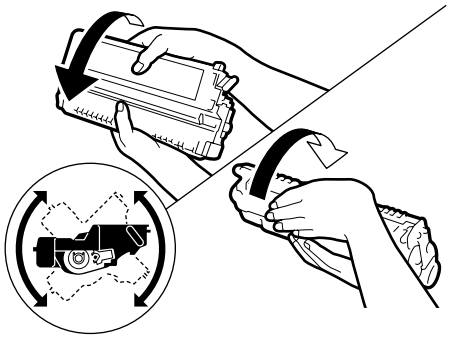
Step	Work	Checks and remarks
8	Pick the fixing member from the bottom of the top unit, and detach it.	
9	Store the shipping attachments [1] and [2] removed in steps 3 and 4 in the machine's bottom unit.	
10	Hold the tab of the cartridge, and take it out of the machine.	
11	Holding the cartridge with the warning label facing up, shake it several times in both directions (90°).	

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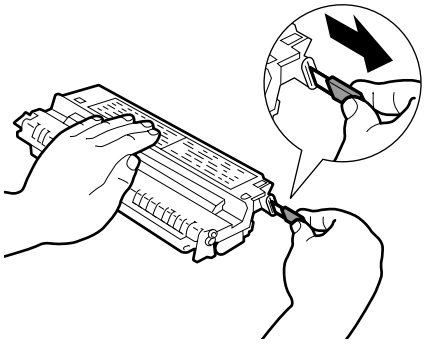
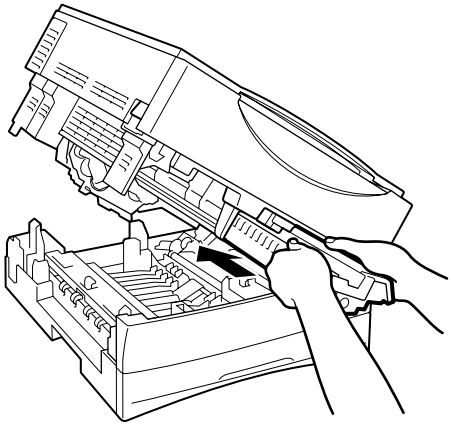
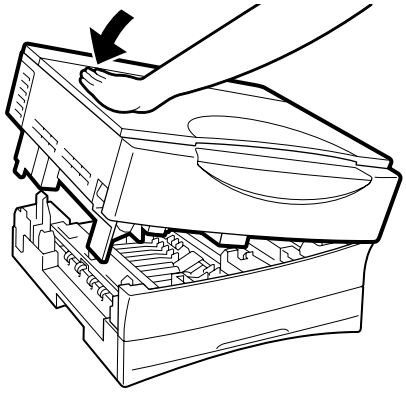
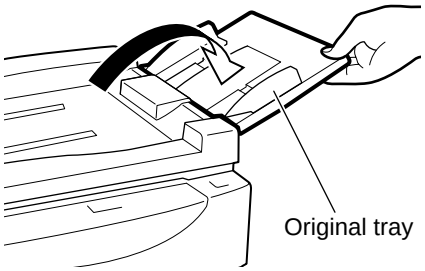
Step	Work	Checks and remarks
12	Place the cartridge on a level place, and pull off the open seal. Holding the tab, pull it straight out in the direction of the arrow. Caution: The seal can tear in the middle. Do no pull it at an angle.	
13	Hold the cartridge with the waning label facing up, and insert it into the machine with care until it stops.	
14	Push on the ✋ marking found on the top of the machine to close it fully.	
15	Open the original tray. Caution: This step applies to the ADF type only.	

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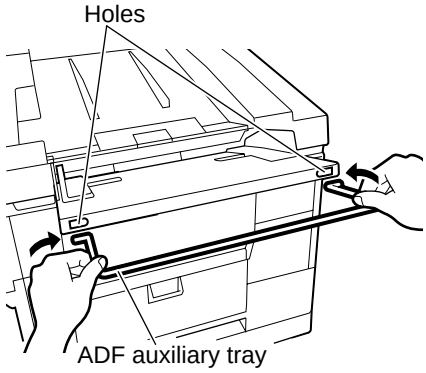
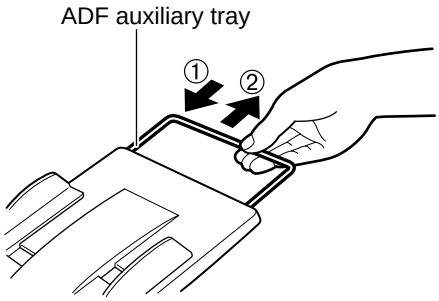
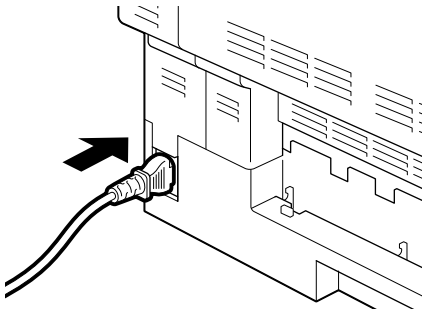
Step	Work	Checks and remarks
16	While bending the ADF auxiliary tray in the direction of arrows in the figure, insert it into the holes on the edge of the original tray. Caution: This step applies to the ADF type only.	
17	Slide in and out the auxiliary tray several times to make sure that it moves smoothly. Caution: This step applies to the ADF type only.	
18	Connect the power cord to the power cord connector.	
19	Connect the power plug to the power outlet; then, turn on the power switch.	• Make sure that the AE and DIRECT indicators turn on, the count/ratio indicator indicates '1'. • Press the Count/Zoom Set key and the Clear/Stop key to check that the copy count is correct. • Press the Default Ratio key to check that different ratios are indicated. • Check to make sure that a press on the Zoom Mode key turns on the '0' indication and a press on the Count/Zoom Set key will indicate the correct ratio.

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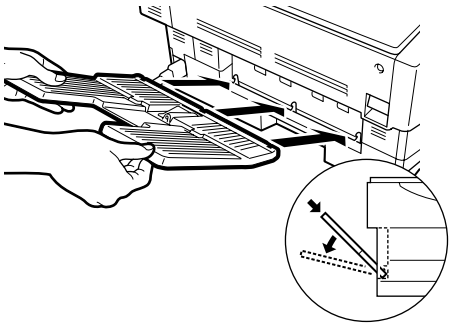
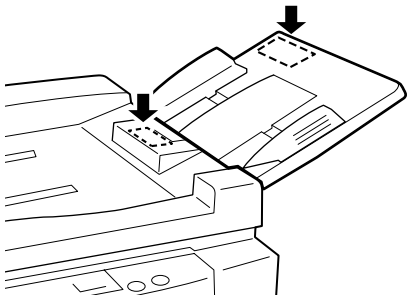
Step	Work	Checks and remarks
20	Attach the copy tray.	 Check to make sure that the three grooves in the copy tray are all in place.
21	Place copy paper inside the cassette. (For how, see B. “Placing Copy Paper.”)	
22	All notations on the label attached to the ADF is in English. If a non-English language is needed, select the appropriate label from among those that come with the machine and stick it. Caution: This step applies to the ADF type only.	
23	Place the Test Sheet on the copyboard glass, and make copies to see if the operation is correct.	• Check to make sure that there is no abnormal noise. • Check to make sure that as many copies as specified are made correctly.
24	Clean the externals of the machine and the area around the machine.	

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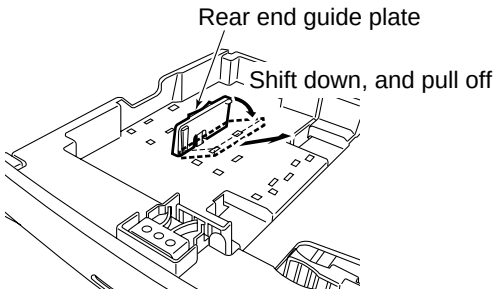
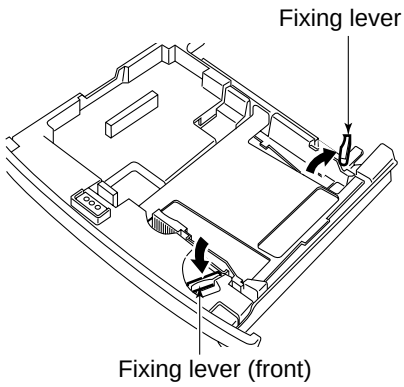
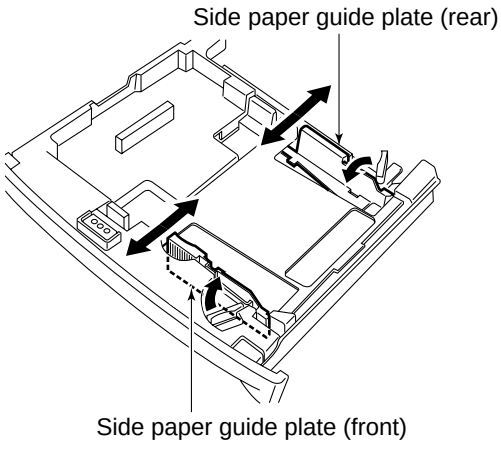
B. Placing Copy Paper

1. Universal Cassette

Step	Work	Checks and remarks
1	Take out the cassette from the machine, and remove the protective members and the label. Remove the rear guide plate as shown, and mount it back to suit the size of the copy paper to be used.	
2	Turn the fixing lever (front, rear) of the side paper guide plate as shown, and unlock the side paper guide plate.	
3	Slide the side paper guide plate to suit the width of the copy paper to be used; then, turn the fixing lever as shown to lock the side paper guide plate in place.	

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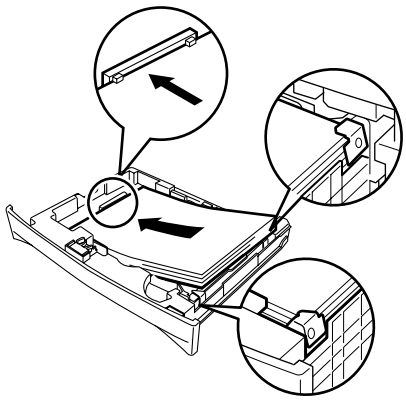
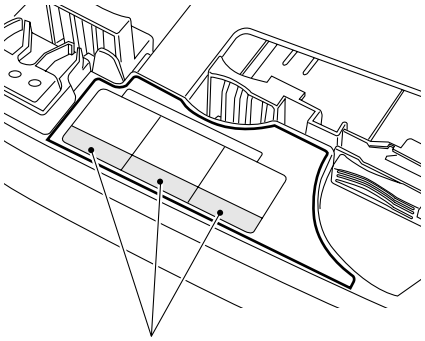
Step	Work	Checks and remarks
4	Place copy paper in the cassette, and set the cassette into the machine.	
5	All text on the label attached to the cassette is English. If you need to replace it with a non-English label, select the appropriate one from among those packaged with the machine, and attach it.	 Language label for cassette

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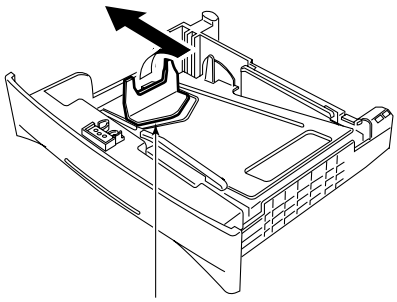
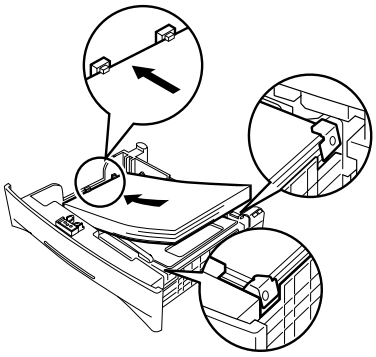
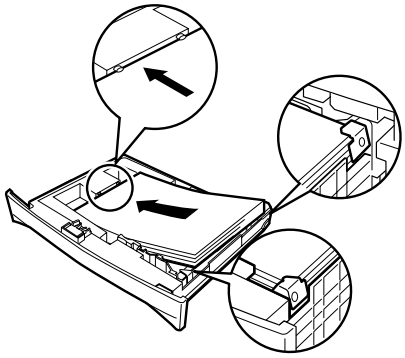
2. 250-Sheet/500-Sheet Cassette

Step	Work	Checks and remarks
1	Take out the cassette from the machine, and remove the protective member.	
2	Slide the rear end paper guide plate as shown to match the size of the paper to be used. Caution: This step applies to the 500-sheet cassette (LTR/LGL) only.	 Rear end guide plate
3	Place copy paper in the cassette; then, set the cassette in the machine.	 • 500-sheet cassette  • 250-sheet cassette

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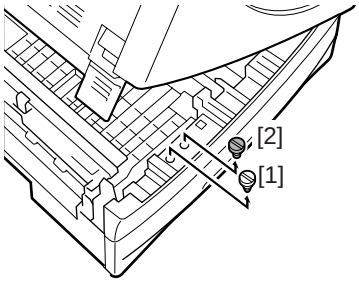
III. MOVING THE MACHINE

If you need to move the machine by truck or any other means of transportation after installation, be sure to perform the following:

Caution:

Before starting the following work, check to make sure that the machines is not too hot. If it is, as immediately after continuous copying, you may not be able to carry out step 8, in which the shipping attachment is replaced.

Step	Work	Checks and remarks
1	Turn on the power, and press the Default Ratio key to select 70%.	
2	Press the Paper Select key to select the manual feed tray; then, press the Copy Start key without placing any paper on the manual feed tray.	The count/ratio indicator will indicate '$\overline{P}$'.
3	Turn off the power switch, and disconnect the power plug from the outlet.	
4	Pull the open/close lever found on the left of the machine, and open the machine's top unit.	
5	Take out the shipping attachments [1] and [2] stored in the machine's bottom unit. 	
6	Detach the copy tray.	
7	Press down on the ✋ marking on the machine's top unit to fully close the machine.	

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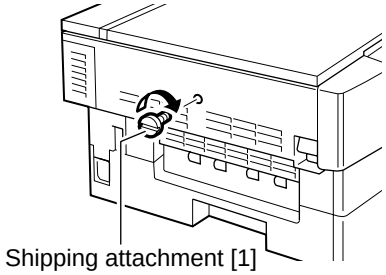
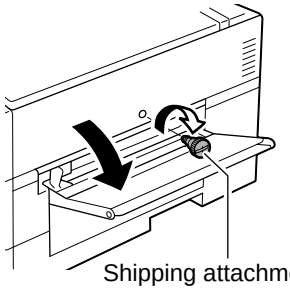
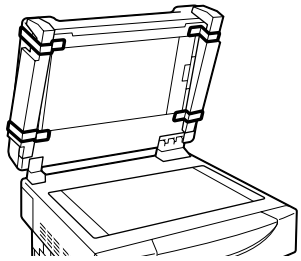
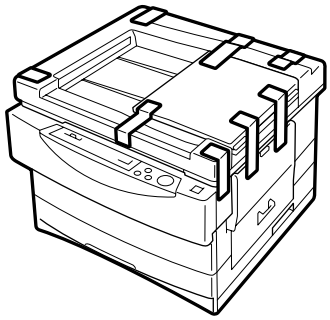
Step	Work	Checks and remarks
8	Fit the shipping attachments [1] and [2] detached in step 5 back to the machine.  Shipping attachment [1]  Shipping attachment [2]	
9	Tape the machine's top unit in place to prevent it from opening.	
10	Place A4/LGL copy paper on the copyboard glass, and close the copyboard cover; then, tape it in place. (Copyboard type only)	
	Raise the ADF. Then, place two parts used as packaging so that they fit closely around both sides and the front of the ADF, as shown in the diagram, and secure them with tape. (ADF type only)	
11	Gently lower the ADF and secure the main unit by taping in eight places, as shown in the diagram. (ADF type only) Pack the machine, using the original packing material and box. Or tape the machine’s top in place so that it will not open while in transit.	

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CHAPTER 10

MAINTENANCE AND SERVICING

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III. SCHEDULED SERVICING 10-1
IV. STORING AND HANDLING THE CARTRIDGE 10-2
A. Storing the Cartridge with the Packaging Seal Intact 10-2
B. Storing and Handling the Cartridge with the Packaging Seal Removed 10-3

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IV. STORING AND HANDLING THE CARTRIDGE

The cartridge is subject to the effects of the environment whether its packing seal is intact or removed or whether it is inside the machine or otherwise, changing over time regardless of the number of copies made. The degree of change is highly dependent on the site of installation and how it is maintained, and no general rule may be drawn; however, it is important to exercise care when storing or handling it.

A. Storing the Cartridge with the Packaging Seal Intact

If you are storing the cartridge in a warehouse or workshop, be sure that the environment is as indicated in Table 10-401; in addition, keep the following in mind:

- Avoid direct rays of the sun.
- Avoid vibration.
- Do not subject it to impact (as by hitting or dropping it).

Temperature	Normal (9/10 of entire storage period)		between 0°C/32°F and 35°C/95°F
	Harsh (1/10 of entire storage period)	High temperature	between 35°C/95°F and 45°C/113°F
		Low temperature	between -20°C/-4°F and 0°C/32°F
Temperature changes (within 3-min period; approx.)			from 40°C/104°F to 15°C/59°F from -20°C/-4°F to 25°C/77°F
Humidity	Normal (9/10 of entire storage period)		between 35% and 85% RH
	Harsh (1/10 of entire storage period)	High humidity	between 85% and 95% RH
		Low humidity	between 10% and 35% RH
Atmospheric pressure			between 613.3 and 1013.3 (hPa; 0.6 to 1 atm)

Table 10-401 Temperature/Humidity Conditions for Storage

Temperature	Humidity
between -20°C/-4°F and 40°C/104°F	90% or less

Table 10-402 Conditions for Transportation

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B. Storing and Handling the Cartridge with the Packaging Seal Removed

The photosensitive medium is an organic photoconducting (OPC) material, which would deteriorate if subjected to storing light.

The cartridge also holds toner, requiring the user to exercise care when storing or handling it. (Be sure that the user stores it in an appropriate storage box for storage.)

1. Storage after Removing the Packaging Seal

a. Avoid areas subject to the direct rays of the sun, i.e., near a window. Do not keep it in a car for a long time, as it will be subjected to an extremely high temperature. (This applies even if the cartridge is inside a protective box.)
b. Avoid areas subjected to high or low temperature/humidity or where temperature or humidity tends to change abruptly (e.g., near an air conditioner).
c. Avoid areas subject to dust, ammonium gas, or organic solvent.
d. Make sure that the cartridge is stored at 40°C/104°F or lower.

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2. Handling the Cartridge

a. Before setting the cartridge in the machine or if copies have white spots as when it starts to run out of toner, hold the cartridge level and shake it about 90° several times as shown in Figure 10-401 to even out the toner inside.
If you shake it in a different way, the toner can spill out of the developing assembly or the cleaning assembly.

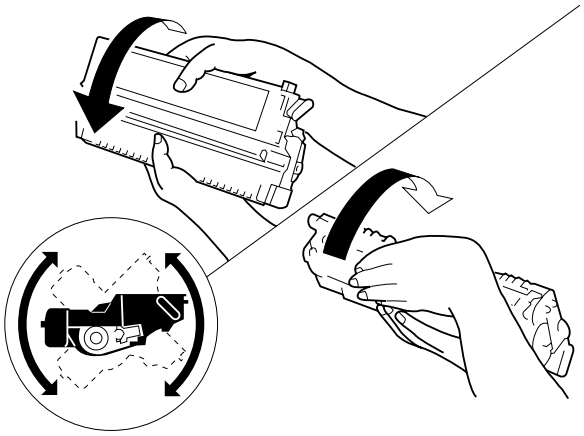

Figure 10-401

b. Do not place the cartridge on its end or turn it over as shown in Figure 10-402.

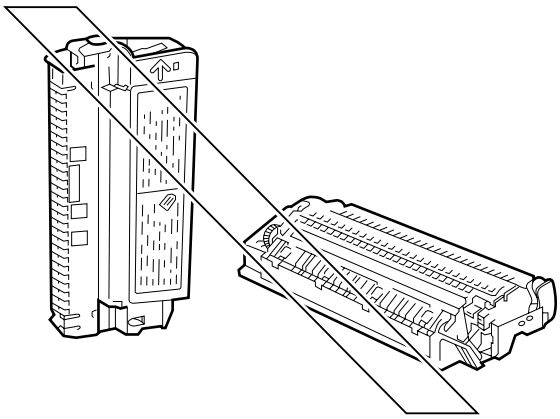

Figure 10-402

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c. Do not touch the surface of the photosensitive drum as by opening the shutter for the photosensitive drum cover found at the bottom of the cartridge.
(If you have soiled the surface of the photosensitive drum, wipe it with a flannel cloth coated with toner. Do not clean it using solvents.)

d. Do not disassemble the cartridge.

e. Do not subject the cartridge to excess vibration or impact. In particular, do not impose force on the shutter for the photosensitive drum shutter.

f. Make sure that it is out of reach of children.

g. The photosensitive drum is susceptible to strong light, and the light-blocking shutter is provided as a means of protection.
If the drum is exposed to strong light for a long time, however, copies can start to show white spots or vertical bands. Try leaving the machine alone as long as possible if such a problem is noted; the memory (i.e., cause of white spots or vertical bands), however, may not disappear.
Keep the following in mind:

Caution:

1. Try to work briskly when removing a jam or replacing the cartridge.
2. If the cartridge must be taken out of the machine for storage, be sure to put it in a protective box or put a cover over it. Do not leave it outside the machine unprotected.

Reference:

If the photosensitive drum is exposed to light of 1500 lux (general lighting) for 5 min and then left alone in a dark place for 5 min, it should recover so that it will not cause practical problems. Nevertheless, avoid direct sunshine. (The rays of the sun is as strong as 10000 and 30000 lux.)

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CHAPTER 11

TROUBLESHOOTING

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Guide to the Troubleshooting Procedure

This chapter provides troubleshooting instructions in the form of tables prepared based on generally found flow charts. Study the following for an idea of how to use them:

AC power is absent.

Cause	Step	Checks	YES/NO	Action
Power plug	1	Is the power plug connected to the power outlet?	NO	Connect the plug.
Covers	2	Are the front door and delivery cover closed fully?	NO	Close the door or the cover.
Power source	3	Is the rated voltage found at the power outlet?	NO	Inform the user that
----------	4	Is the rated voltage present between J1-1 and -2? (J1 is found near the power cord mount.)	YES	Go to step 6.

(Rest omitted.)

- To find out the cause (possible fault) of a specific problem, see the "Cause" column. If the problem is “AC power is absent,” you may suspect that the power plug is disconnected, covers are not closed fully, or power is absent at the main source.
- If you want to find out the checks to make or action to take, go through the steps: answer the questions under “Checks”; if yes, take the action shown. Otherwise, go to the next step and make the indicated checks.

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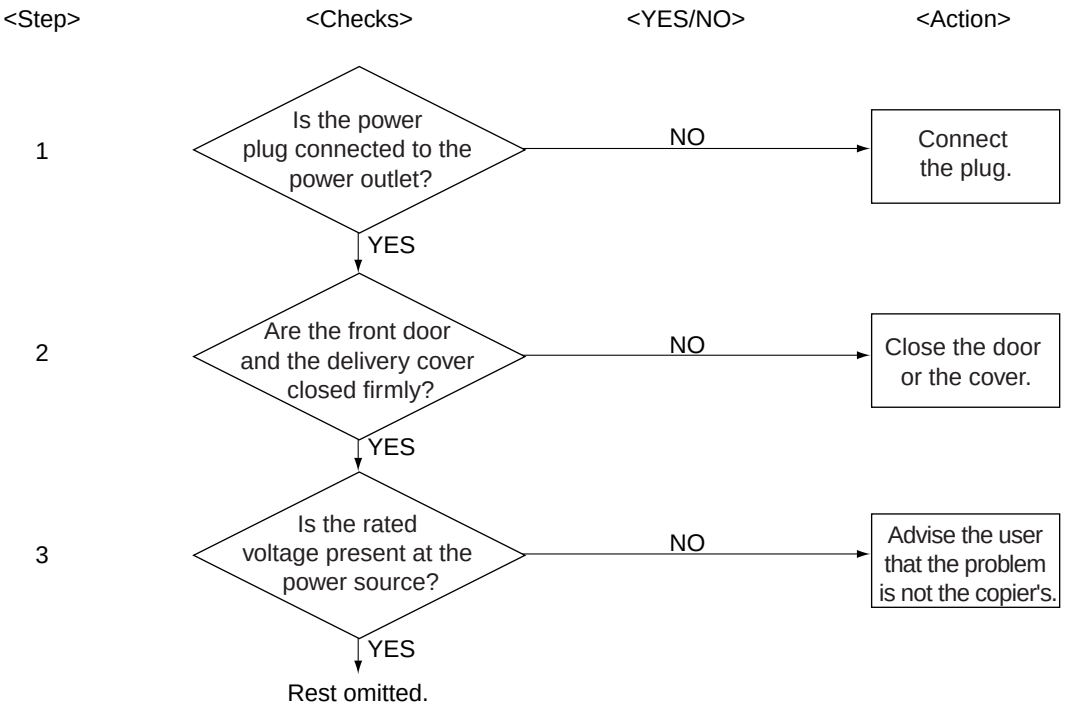

- Often, you will find the following instructions when checking the voltage using a meter: “measure the voltage between J109-1 (+) and -2 (-) on the DC controller PCB.” The symbol “+” indicates the terminal to which you are expected to connect the positive probe of the meter and “-,” the negative probe.

  example:
  J109-1 (+) ..... Connect the positive probe.
  J109-2 (-) ..... Connect the negative probe.

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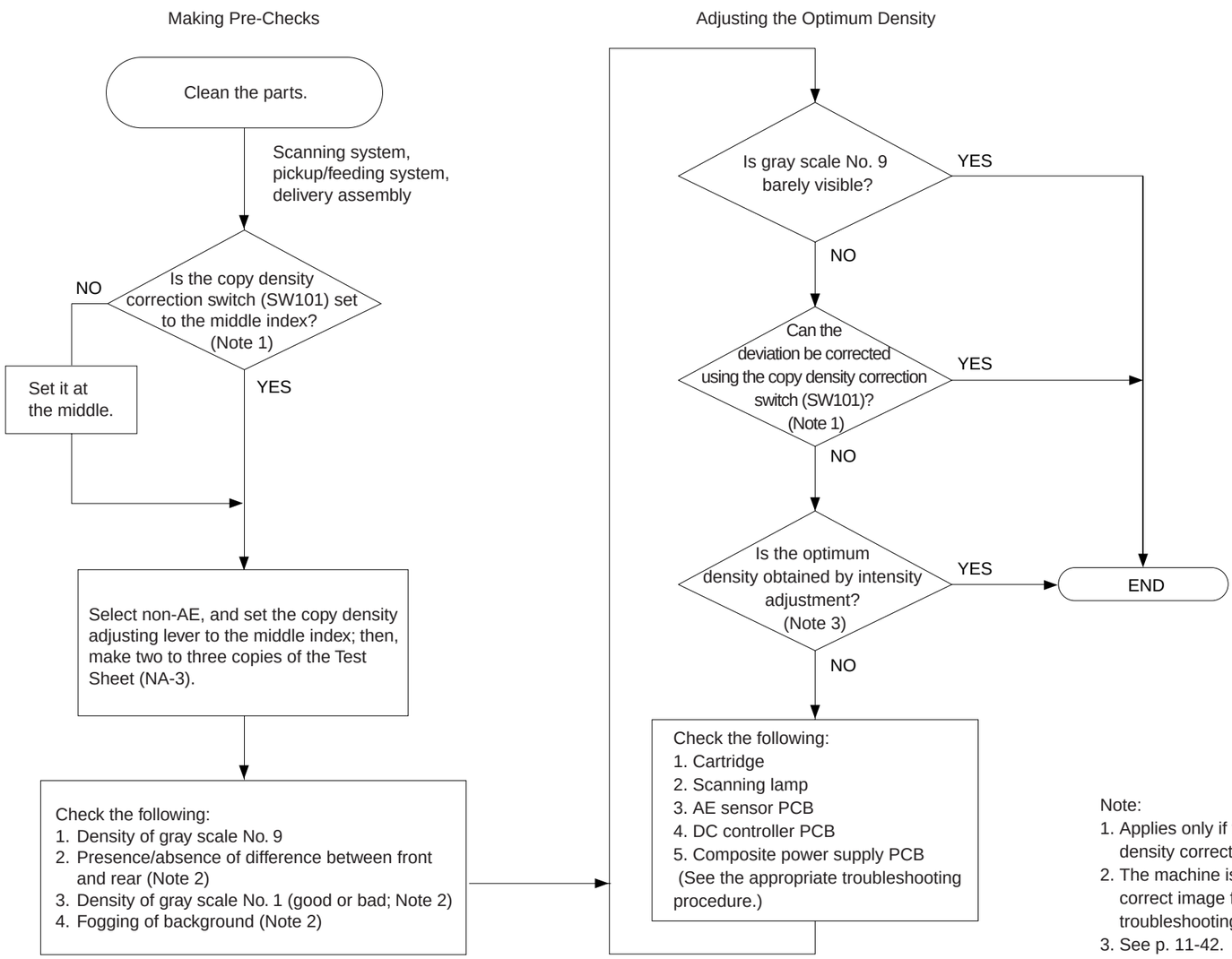
I. MAINTENANCE AND INSPECTION

A. Image Adjustment Basic Procedure


Making Pre-Checks
Clean the parts.
Scanning system, pickup/feeding system, delivery assembly
Is the copy density correction switch (SW101) set to the middle index? (Note 1)
NO
YES
Set it at the middle.
Select non-AE, and set the copy density adjusting lever to the middle index; then, make two to three copies of the Test Sheet (NA-3).
Check the following:
1. Density of gray scale No. 9
2. Presence/absence of difference between front and rear (Note 2)
3. Density of gray scale No. 1 (good or bad; Note 2)
4. Fogging of background (Note 2)
Adjusting the Optimum Density
Is gray scale No. 9 barely visible?
YES
NO
Can the deviation be corrected using the copy density correction switch (SW101)? (Note 1)
YES
NO
Is the optimum density obtained by intensity adjustment? (Note 3)
YES
END
NO
Check the following:
1. Cartridge
2. Scanning lamp
3. AE sensor PCB
4. DC controller PCB
5. Composite power supply PCB
(See the appropriate troubleshooting procedure.)

Note:
1. Applies only if the machine is equipped with a copy density correction switch (SW101).
2. The machine is not equipped with a function to correct image faults. See the appropriate troubleshooting procedure.
3. See p. 11-42.

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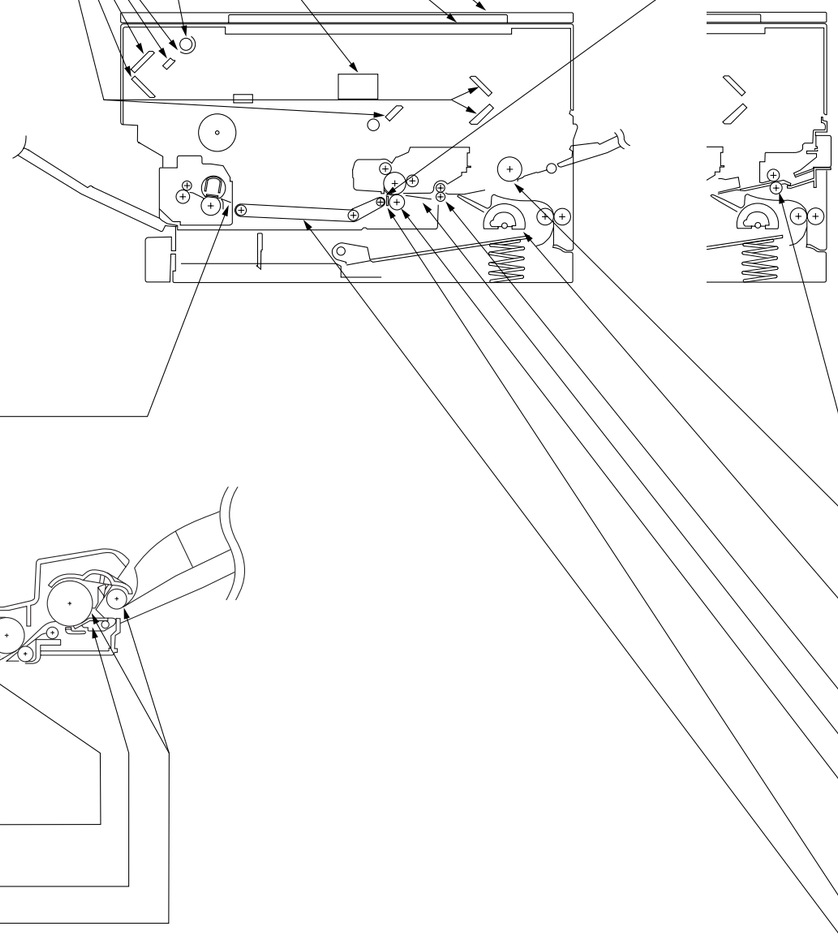
B. Points to Note for Servicing

Copyboard, Scanner

Item	Tools/solvent	Work/remarks
Copyboard cover	Alcohol	Cleaning.
Copyboard glass	Alcohol	Cleaning.
Lens	Blower brush	Cleaning.
Scanning lamp	Lint-free paper	Dry wiping.
Reflecting plate No. 1 through No. 6 mirror	Blower brush	If dirt cannot be removed, dry-wiping with lint-free paper.

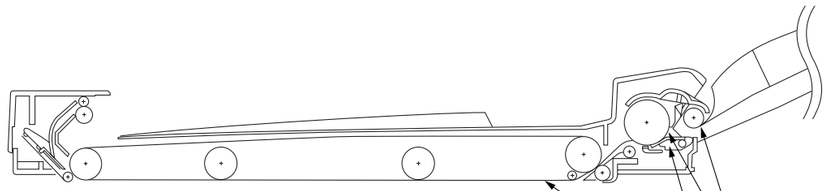
Cartridge

Item	Tools/solvents	Work/remarks
Drum cover shutter	Most cloth	Cleaning; be sure to remove all toner to prevent toner soiling images.



Fixing Assembly, Delivery Assembly

Item	Tools/solvent	Work/remarks
Inlet guide	Solvent	Cleaning.



ADF

Item	Tool/solvent	Work/remarks
Feeding belt	Cloth moistened with water*	Dry-wiping.
Separation pad	Cloth	Cleaning.
Pickup roller	Cloth moistened with water* or alcohol	Cleaning.

*Be sure to wring it well.

Pickup, Feeding, and Transfer Assemblies and Static Eliminator

Item	Tools/solvents	Work/remarks
Single-feeder pickup roller	Moist cloth or alcohol	Cleaning.
Multifeeder, Pickup roller	Moist cloth or alcohol	Cleaning.
Cassette pickup roller	Moist cloth or alcohol	Cleaning.
Registration roller	Moist cloth	Cleaning.
Transfer guide	Moist cloth	Cleaning.
Transfer charging roller	Lint-free paper	Cleaning. Do not use water or solvent. Take care not to touch it or leave solvent or oil.
Static eliminator	Special brush	Cleaning.
Feed belt	Moist cloth	Cleaning.

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II. STANDARDS AND ADJUSTMENTS

A. Mechanical

1. Copier

a. Leading Edge Non-Image Width

Make adjustments so that the leading edge non-image width is 2.0 ±1.5 mm when the Test Sheet is copied in Direct.

Caution:

If you have performed this adjustment, be sure to adjust the image leading edge margin.

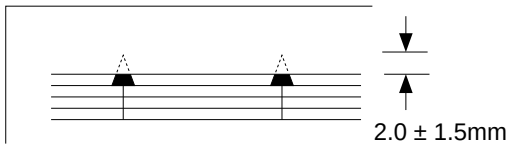

Figure 11-201

1) Turn VR105 on the DC controller PCB so that the width is as indicated.

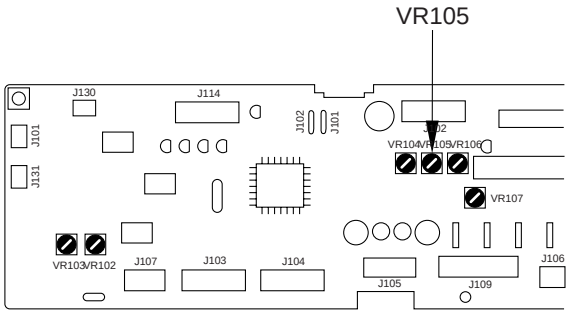

Figure 11-202

Turing VR105 and Leading Edge Non-Image Width

Direction of VR105	Leading edge non-image width
Clockwise	Decreases
Counterclockwise	Increases

Table 11-201

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b. Image Leading Edge Margin (registration activation timing)

Make adjustments so that the leading edge margin is 2.5 ±1.5 mm when the Test Sheet is copied.

Caution:

Be sure to check that the leading edge non-image width is as indicated before performing this adjustment.

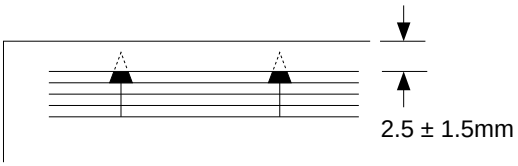

Figure 11-203

1) Turn VR104 on the DC controller PCB so that the margin is as indicated.

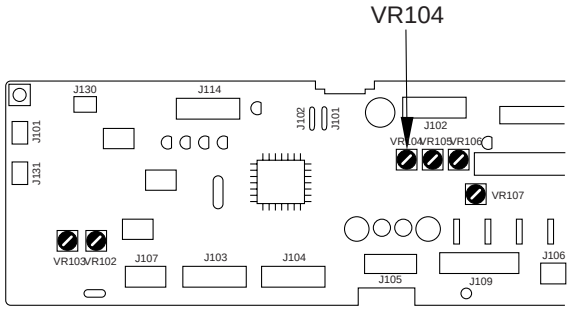

Figure 11-204

Turing VR104 and Image Leading Edge Margin

Direction of VR104	Image leading edge margin
Clockwise	Increases
Counterclockwise	Decreases

Table 11-202

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c. Adjusting the Mirror Position (optical length between No. 1 mirror and No. 2 mirror)

If you have replaced the scanner drive cable, you must adjust the mirror position, by changing the position of the cable retainer of the No. 1 mirror mount.

Reference:

1. As more and more copies are made, the cable tends to become slack, requiring adjustment.
2. If the optical length between the No. 1 mirror and the No. 2 mirror is not correct, the horizontal reproduction ratio will be wrong, causing poor sharpness or blurred images.

1) Fit the mirror positioning tool (FY9-3009) as shown.

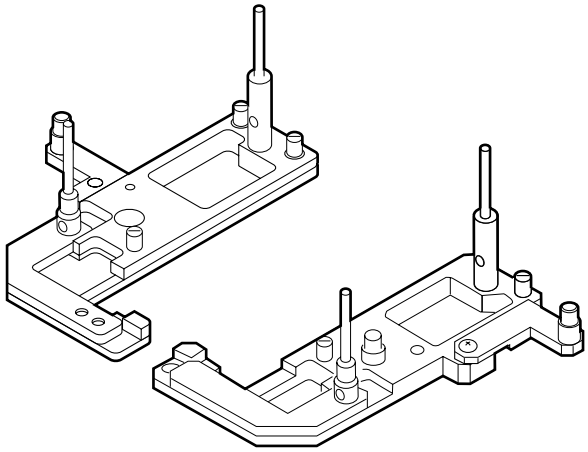

Figure 11-205

2) Remove the copyboard glass. (See Chapter 7.Ⅲ.C.1. “Removing the Copyboard Glass”.)
3) Loosen the screws used to secure the cable retainer at the rear and the front of the No. 1 mirror mount [1].

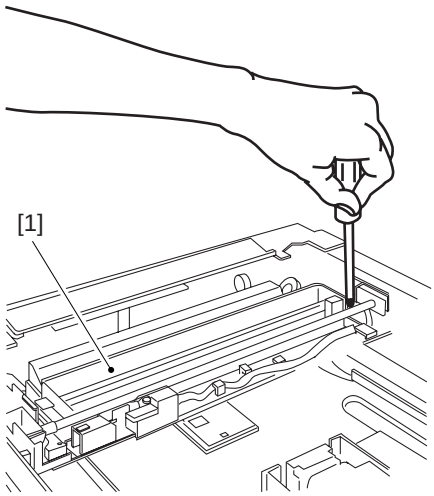

Figure 11-206

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4) Turn the cable drive pulley [3] so that the three shafts [2] of the mirror positioning tool for the front and the rear may be arranged as shown.

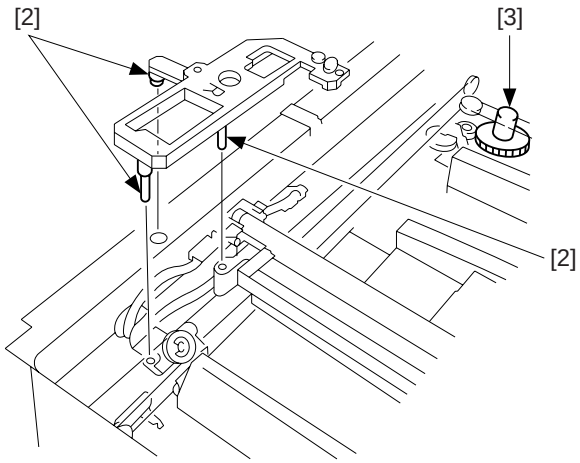

Figure 11-207 (rear)

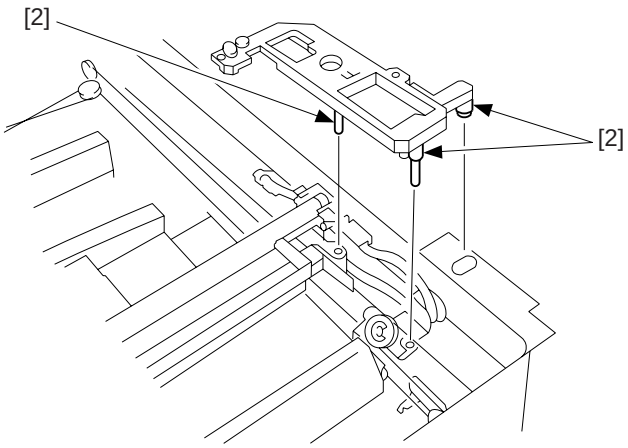

Figure 11-208 (front)

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5) While keeping the condition of 4), tighten the positioning screw at the rear and the front of the No. 1 mirror mount [1].

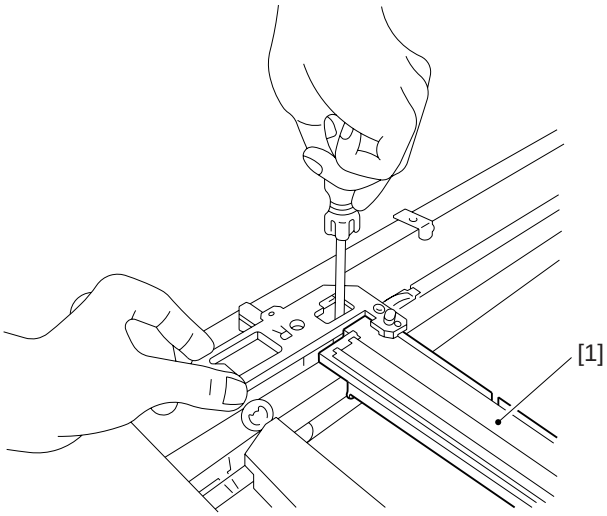

Figure 11-209 (rear)

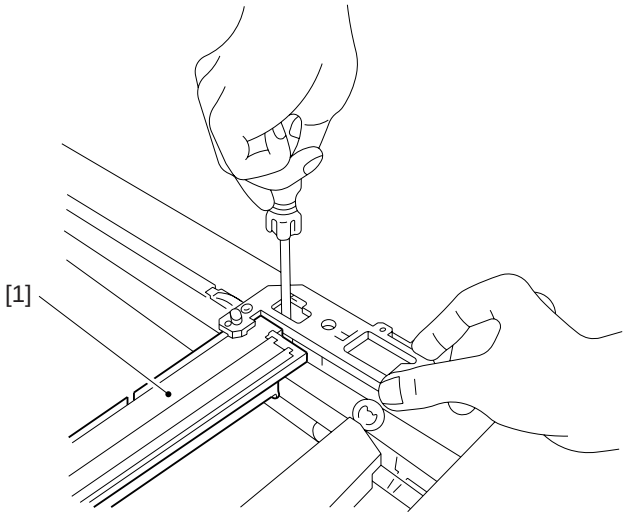

Figure 11-210 (front)

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d. Checking the Force of the Cassette Spring

If the force of the spring used to hold up the holding plate of the cassette is not correct, pickup faults or the like can occur.

If a fault is suspected, check the force of the spring using a spring gauge (CK-0054), and replace the spring if it is not as indicated:

Standard: 970 ±150 g

Making Measurements

Push the spring gauge against the middle of the spring as shown, and check to make sure that the reading of the spring gauge is 970 ±150 g when the holding plate is 18 mm away from the bottom of the cassette.

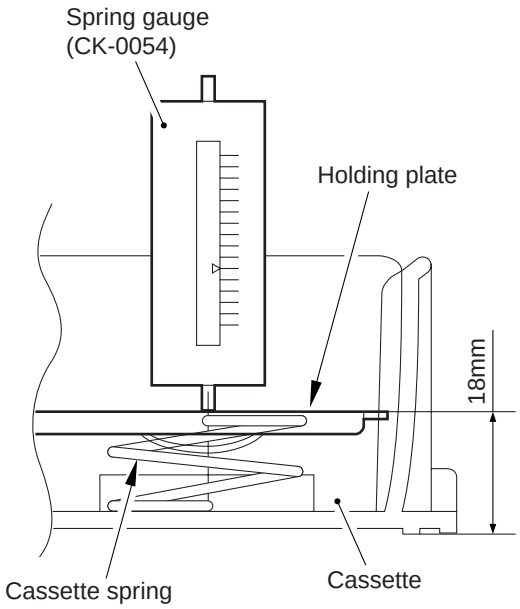

Figure 11-211

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e-1. Routing the Scanner Drive Cable

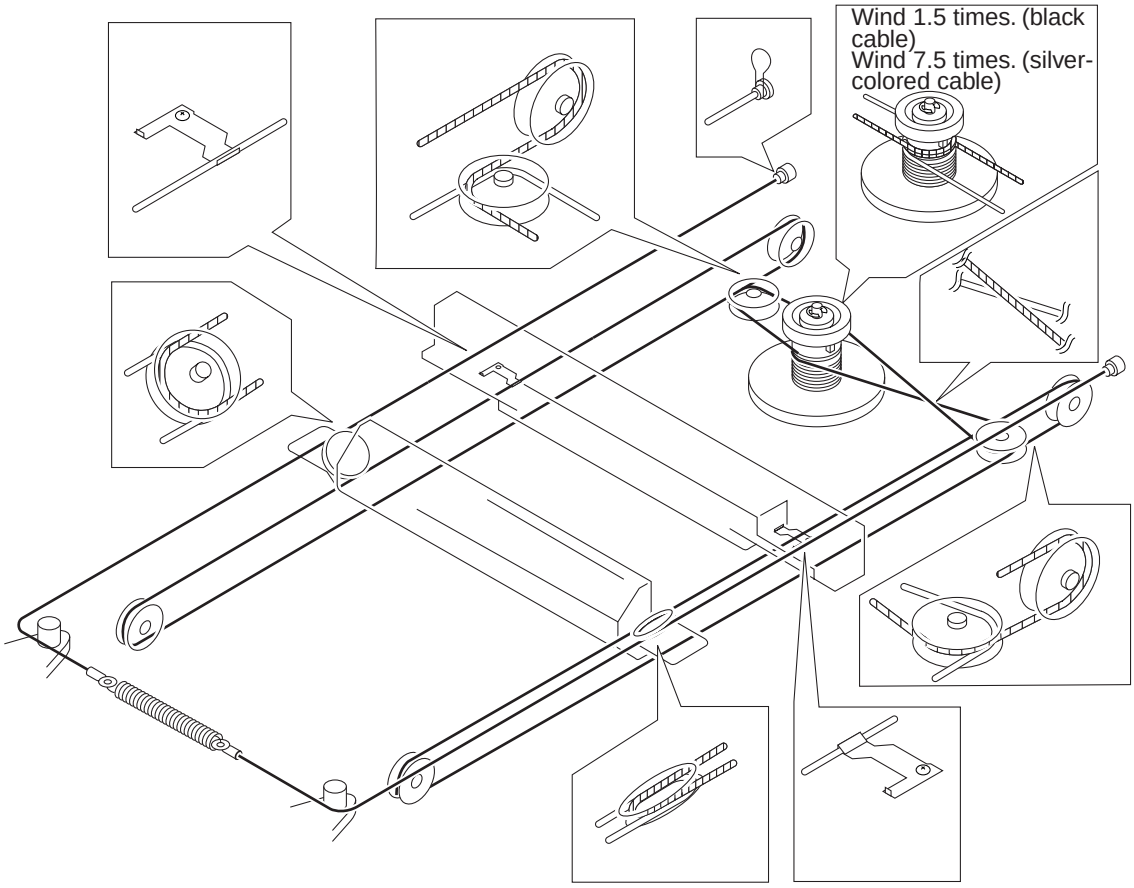

Figure 11-212

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e-2. Routing the Scanner Drive Cable

1. Before Starting the Work

Prepare the following:
- Mirror positioning tool (FY9-3009)
- Cable clip (FY9-3017)
- Adhesive tape

1) Set the mirror positioning tool as shown.

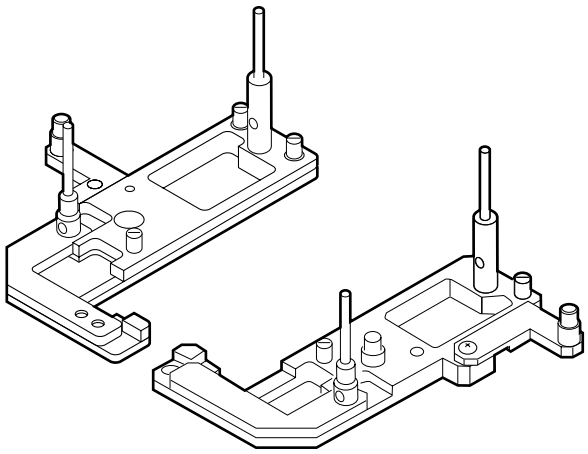

Figure 11-213

2) Prepare about five strips of adhesive tape (each one about 20 × 50 mm).
3) Remove the copyboard glass. (See Chapter 7.Ⅲ.C.1.“Removing the Copyboard Glass.”)
4) Disconnect the connectors (J101, J131) [1] from the DC controller PCB.

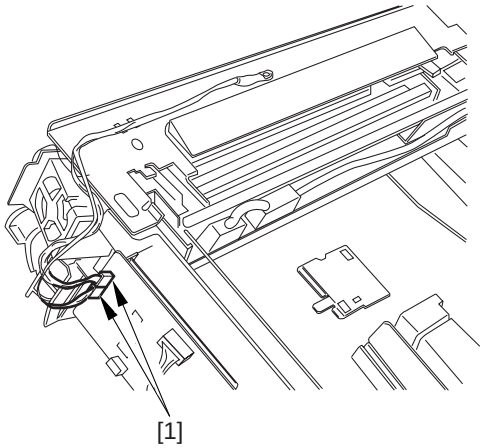

Figure 11-214

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5) If the machine is equipped with an ADF, free the hook [2], and disconnect the two relay connectors [3] from the left upper stay [4].

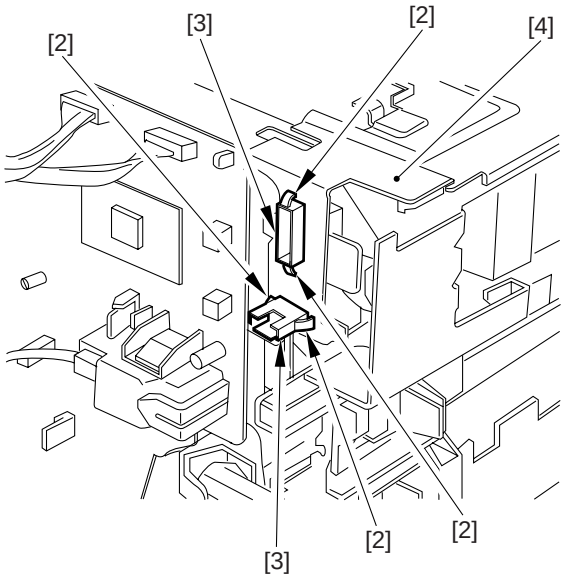

Figure 11-215

6) Remove the three screws [5], and detach the left upper stay [4].

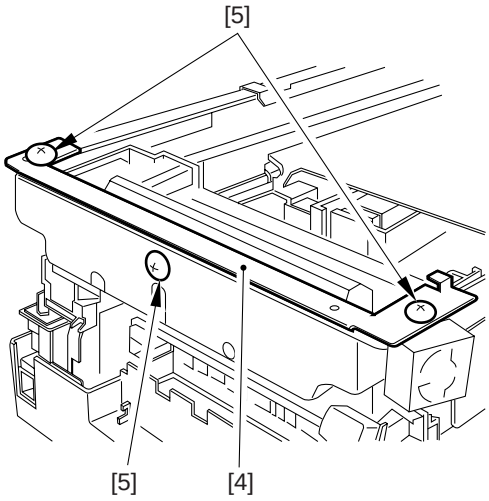

Figure 11-216

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7) Remove the four screws [7], and detach the lens cover [8].

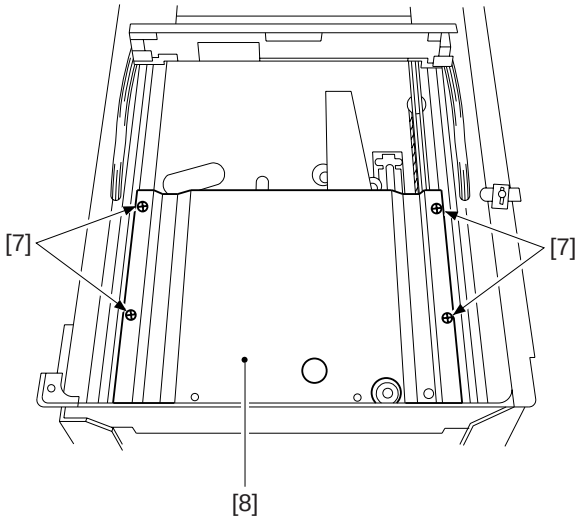

Figure 11-217

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2. Routing the Reversing Cable

1) Wind the reversing cables (silver-colored) [2] on the cable drive pulley [1] 7.5 times with the longer of the two on top; then, secure it in position with a cable clip [3].

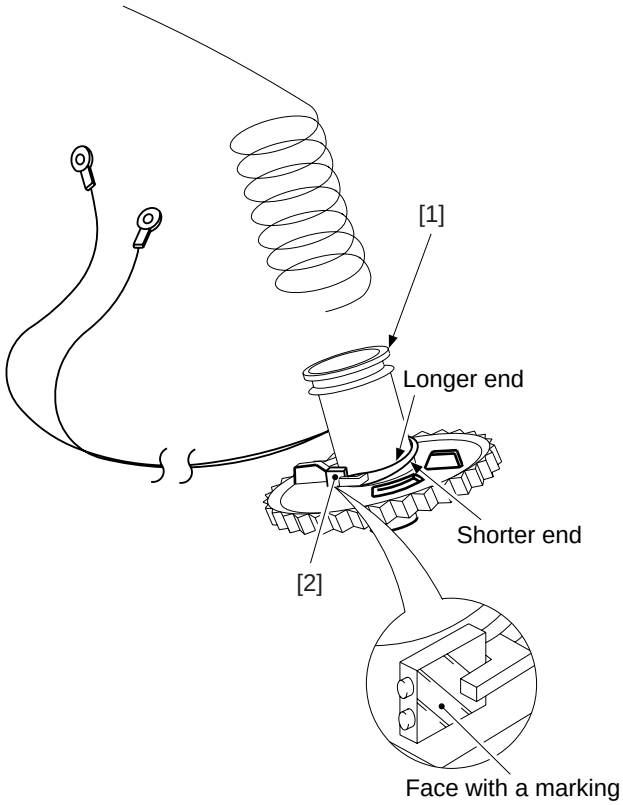

Figure 11-218

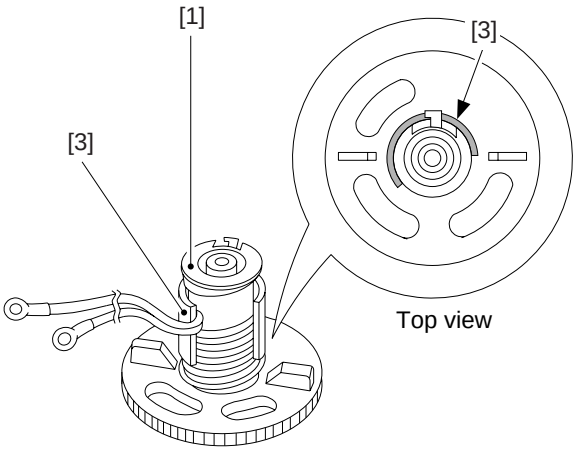

Figure 11-219

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2) Put the cable drive pulley [1] into the shaft [4], and secure it in position with an E-ring [5]. When putting the cable drive pulley into the shaft, be sure that the hook is at the front.

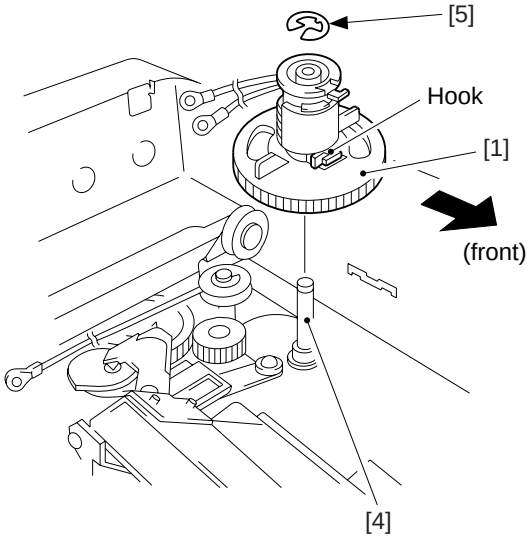

Figure 11-220

3) Hook the shorter end [6] on the pulley [7].

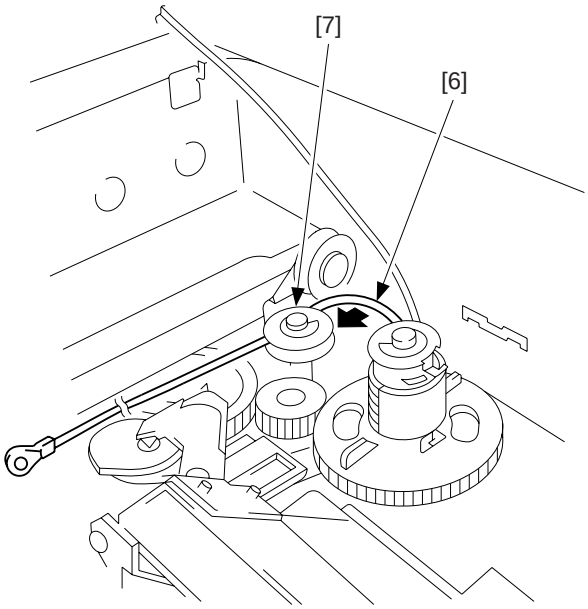

Figure 11-221

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4) Lead the shorter end [6] under the No. 1 mirror mount [8] and the No. 2/3 mirror mount [9]; then, hook it on the left rear pulley [10] and the pulley [11] of the No. 2/3 mirror mount.

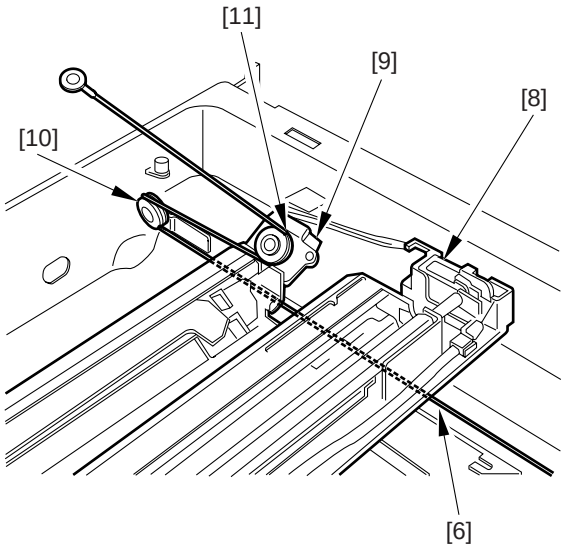

Figure 11-222

5) After fitting the shorter end [6] on the cable hook [12], secure its end with adhesive tape [13]. Be sure that the secured end of the cable is found where the hole in the left side plate and the tip of the cable matches.

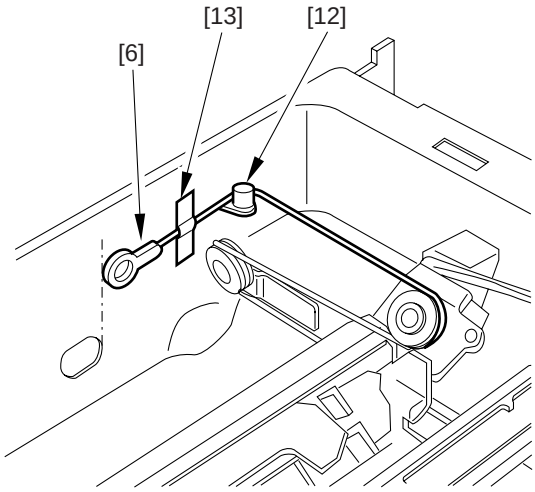

Figure 11-223

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6) Lead the longer end [14] along the cable drive pulley, and hook it on the pulley [15] on the right front side.

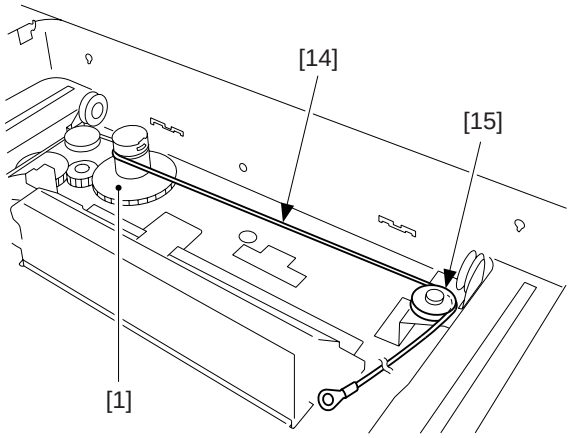

Figure 11-224

7) Lead the longer end [14] under the No. 1 mirror mount [8] and the No. 2/3 mirror mount [9]; then, hook it on the pulley [16] on the left front side and the pulley [17] of the No. 2/3 mirror mount.

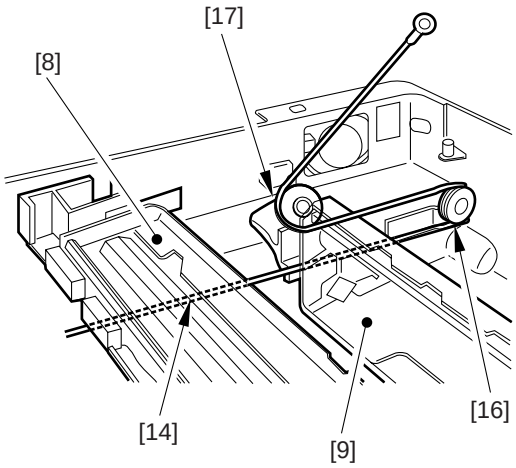

Figure 11-225

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8) Hook the longer cable [14] on the cable hook [18]; then, secure its end to the left side with adhesive tape [19].
Be sure that the secured end of the cable is found where the hole in the left side plate and the tip of the cable matches.

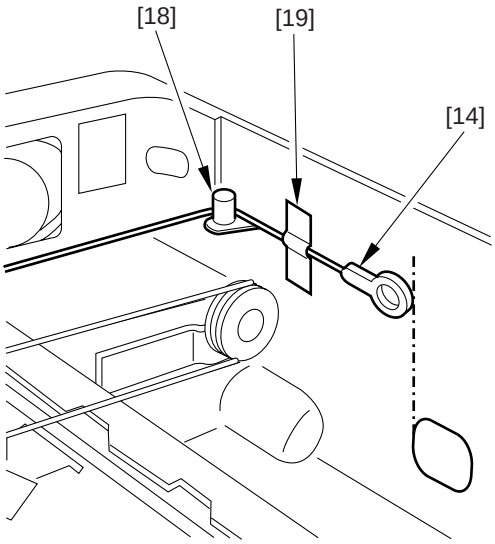

Figure 11-226

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3. Routing the Forwarding Cable

1) Fit the longer end forwarding cable (black) [2] on the top hook of the cable drive pulley [1], and wind it 1.5 times. Then, secure the shorter end [3] as shown with adhesive tape [4].

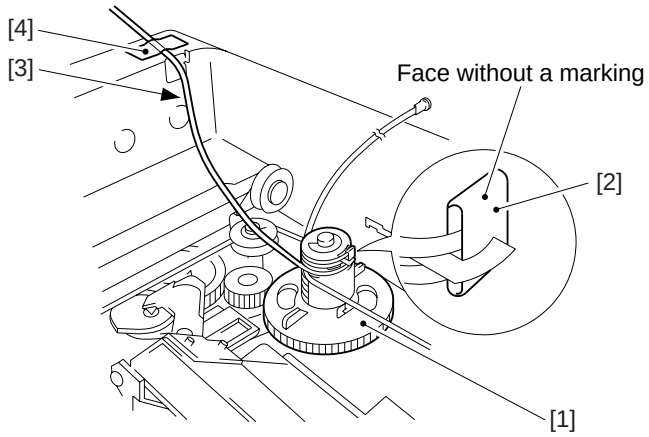

Figure 11-227

2) Lead the longer end [5] along the cable drive pulley [1] as shown, and hook it on the pulley [6] on the right front side.

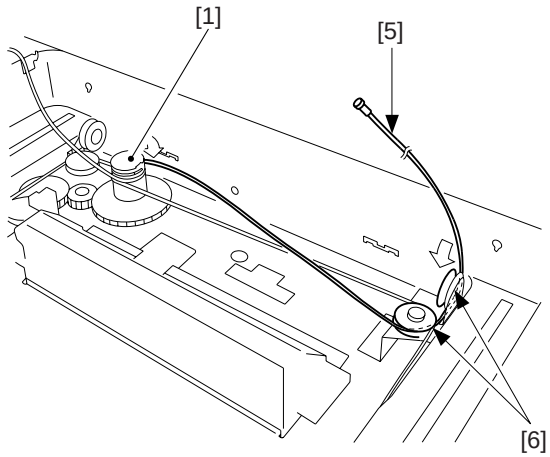

Figure 11-228

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3) Lead the longer end [5] under the No. 1 mirror mount [7]; then, hook it on the pulley [8] of the No. 2/3 mirror mount, and lead it between the No. 1 mirror mount [7] and the scanning lamp [9].

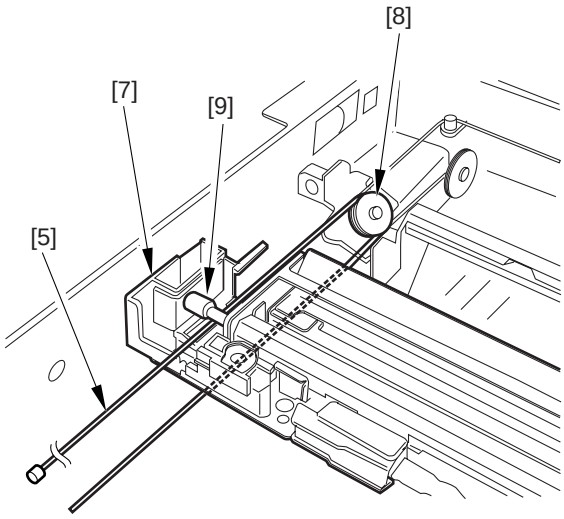

Figure 11-229

4) Hook the end of the longer end [5] on the hole [10] on the right side.

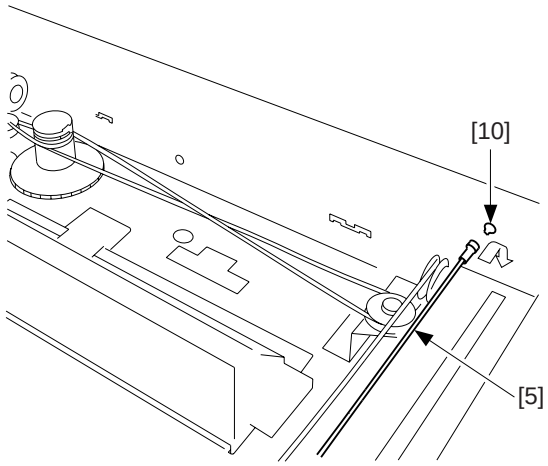

Figure 11-230

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5) Free the shorter end [3], and hook it on the pulley [11] on the right rear side.

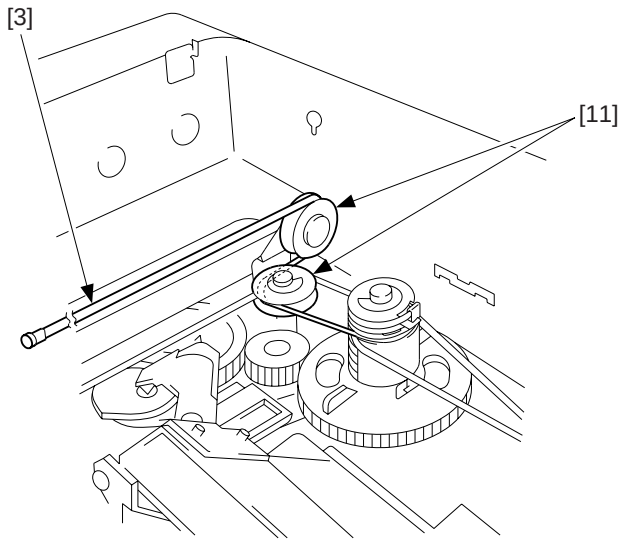

Figure 11-231

6) Lead the shorter end [3] under the No. 1 mirror mount [7], and hook it on the pulley [12] of the No. 2/3 mirror mount as shown; then, lead it between the No. 1 mirror mount [7] and the scanning lamp [9].

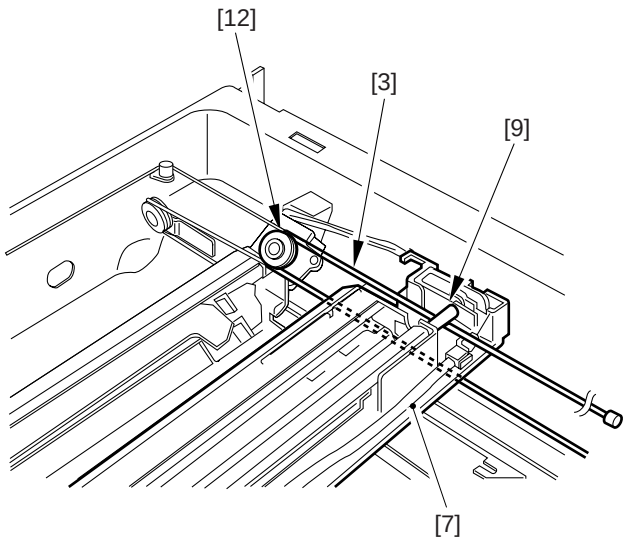

Figure 11-232

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7) Hook the end of the shorter end [3] on the hole [13] on the right side.

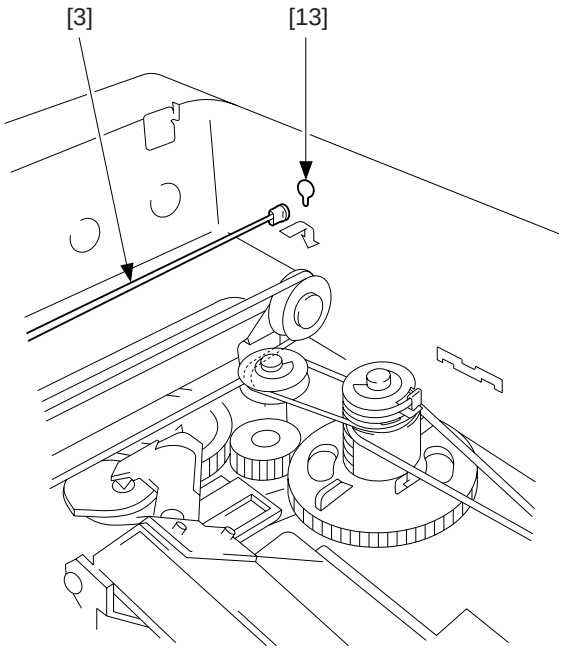

Figure 11-233

8) Free the shorter end [3] and the longer end [5] (reversing cable), and connect both with a spring [14]; then, fit the stopper [15].

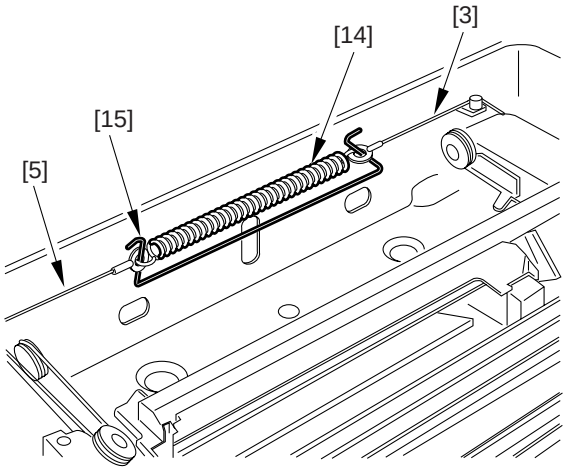

Figure 11-234

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9) Detach the pulley clip [16] from the cable drive pulley [1].

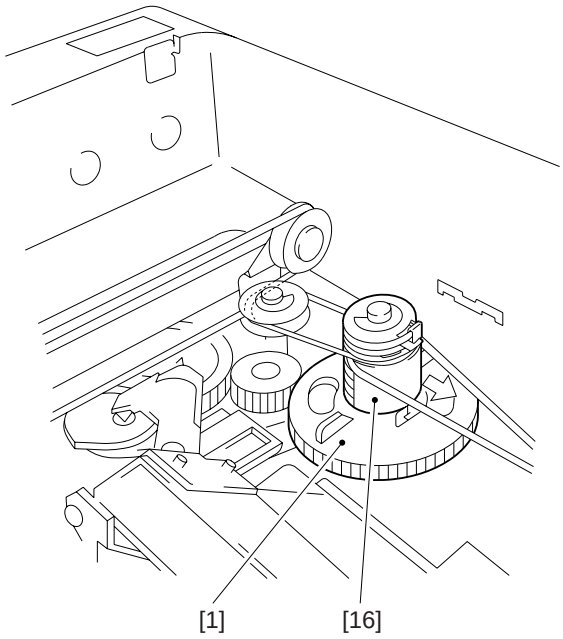

Figure 11-235

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4. Positioning the No. 1 Mirror Mount

1) Fix the rear and the front of the No. 1 mirror mount [1] temporarily to the metal fixing [2] of the forwarding cable.

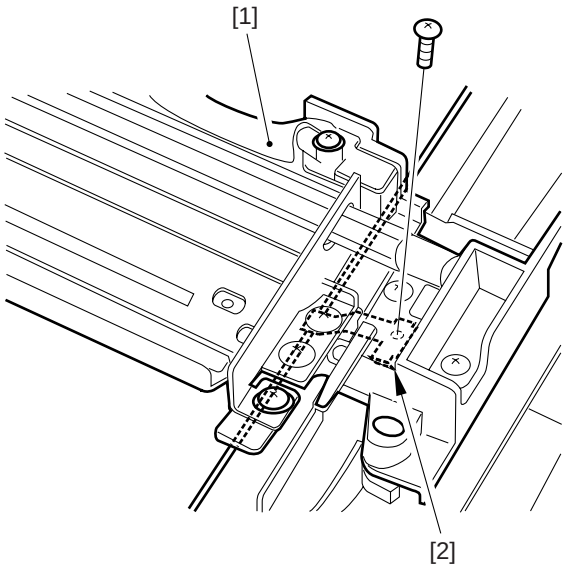

Figure 11-236 (rear)

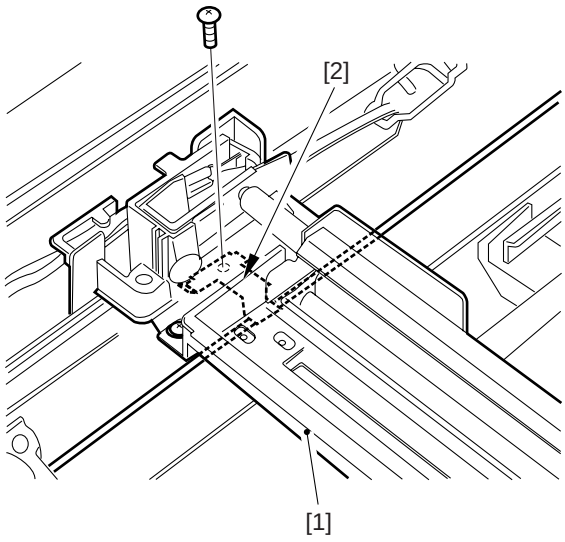

Figure 11-237 (front)

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2) Turn the cable drive pulley [4] so that the three shafts [3] of the mirror positioning tool for rear and front is as shown.

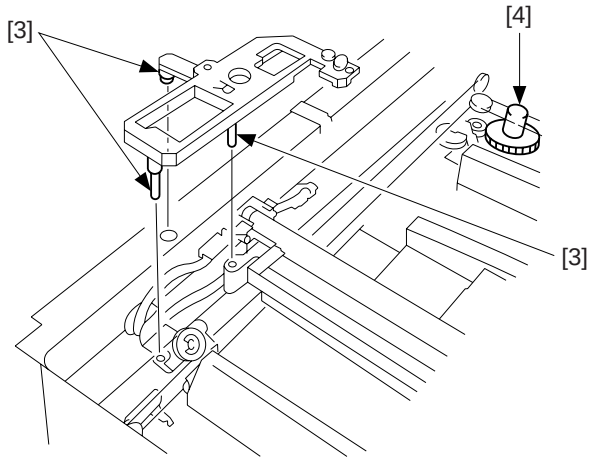

Figure 11-238 (rear)

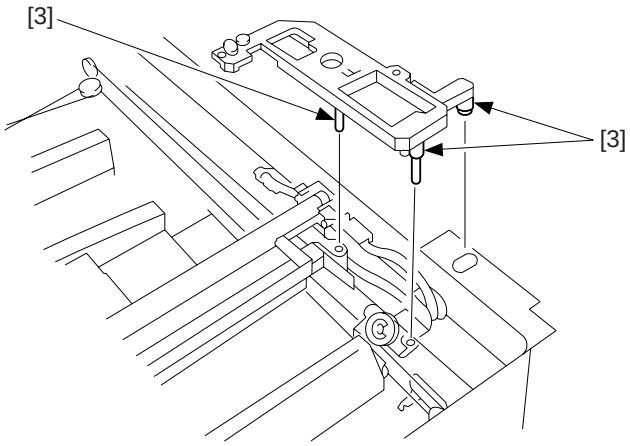

Figure 11-239 (front)

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3) While keeping the condition of step 2), tighten the positioning screw on the rear and front of the No. 1 mirror mount [1].

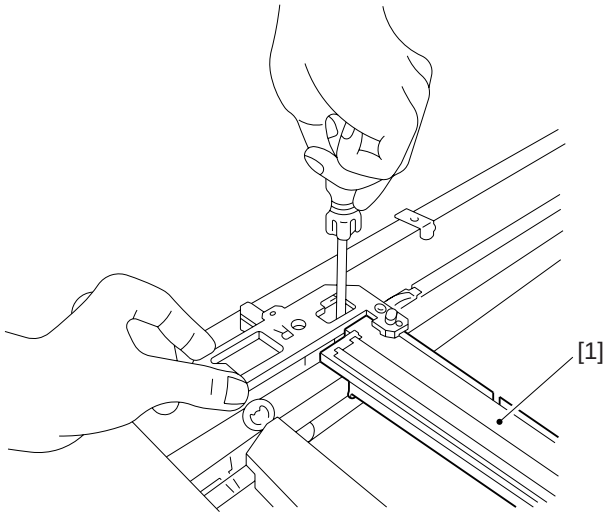

Figure 11-240 (rear)

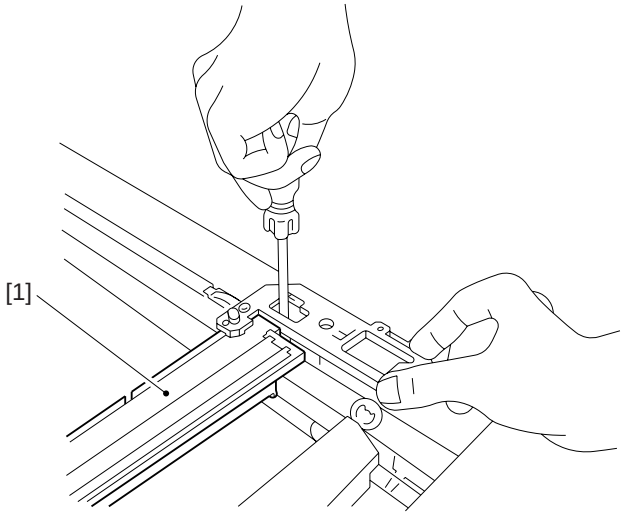

Figure 11-241 (front)

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f. Point to Note When Mounting the Scanning Lamp

When mounting the scanning lamp, be sure that its logo mark (manufacturer's name) is toward the front. Further, be sure that the protrusion near its middle is as shown.

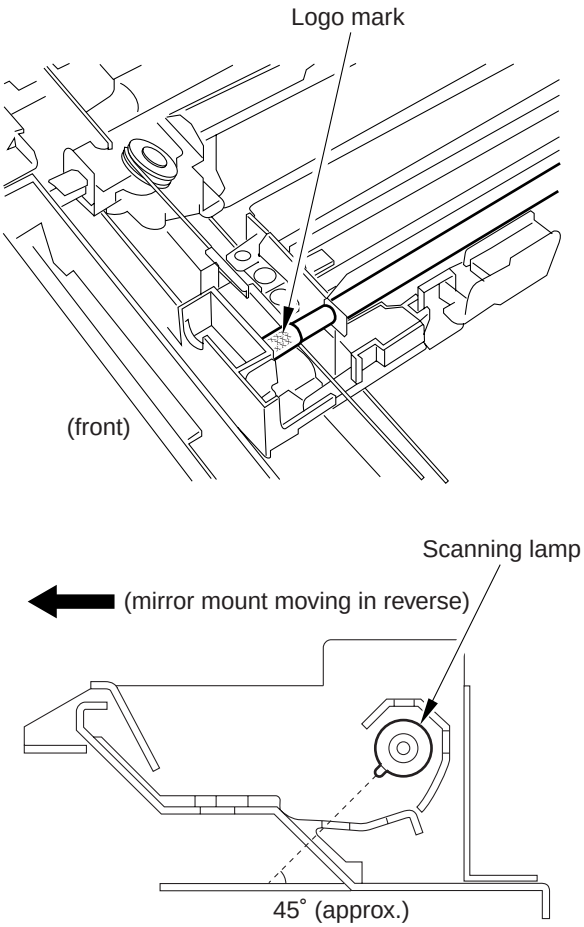

Figure 11-242

Caution:

- If you have replaced the scanning lamp, you must adjust the intensity of the lamp (p. 11-42) and perform AE adjustment.
- Do not touch the lamp when handling it.

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g. Points to Note When Mounting the Fuse

When mounting the thermal fuse of the No. 1 mirror mount, be sure that the fuse is oriented as shown.

Make sure that the fuse is in contact with the reflecting plate.

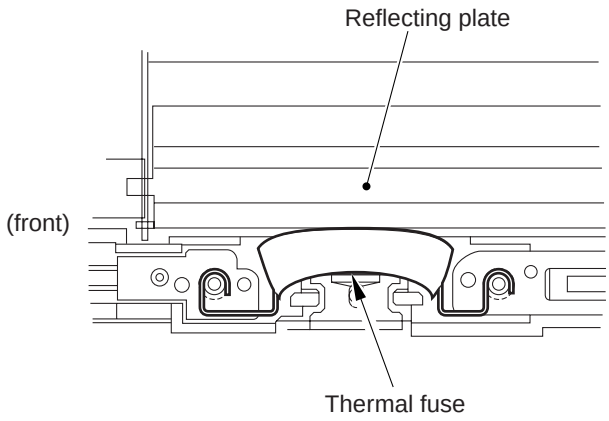

Figure 11-243

B. ADF

1. Adjusting the Original Stop Position

Adjust the original stop position in the following order:

1. Correcting original skew
2. Adjusting the rear/front original stop position
3. Adjusting the original leading edge stop position

2. Correcting Original Skew

1) Obtain a sheet of A4 or LTR white copy paper, and draw two lines as indicated.
   • The sheet will be used as a test sheet.

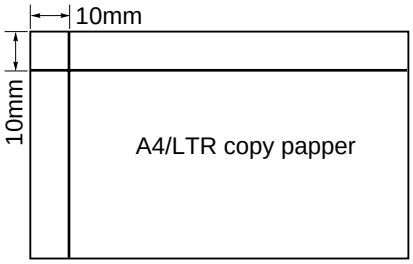

Figure 11-244

2) Turn on the machine, and place the test sheet prepared in step 1) on the original tray.

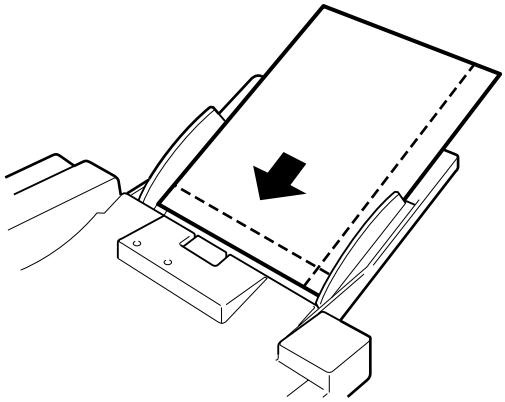

Figure 11-245

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3) Press the Copy Start key to make a copy.
4) Check to make sure that the difference between L1 and L2 on the copy is 1.8 mm (standard) or less.

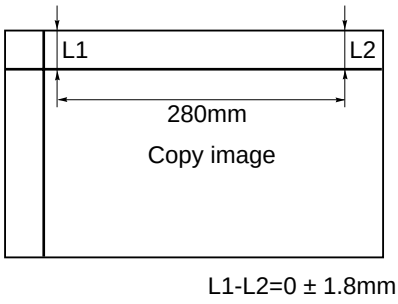

Figure 11-246

5) If the difference is not as specified, turn the adjusting screw found to the side of the left hinge unit to make adjustments.

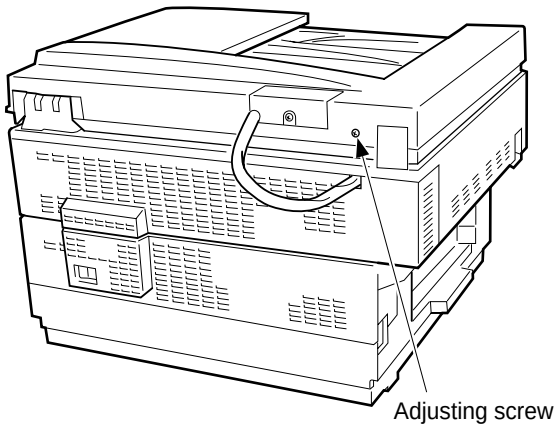

Figure 11-247

Relationship between Adjusting Screw and L1/L2

Direction of turn	Relationship between L1 and L2
Clockwise	L1 > L2
Counterclockwise	L1 < L2

Table 11-203

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3. Adjusting the Rear/Front Original Stop Position

You must first correct original skew before adjusting the rear/front original stop position.

1) Obtain a sheet of A4 or LTR white copy paper, and draw two lines as indicated.
   • The sheet will be used as a test sheet.

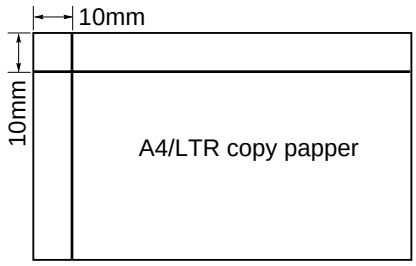

Figure 11-248

2) Remove the original tray cover from below the original tray.

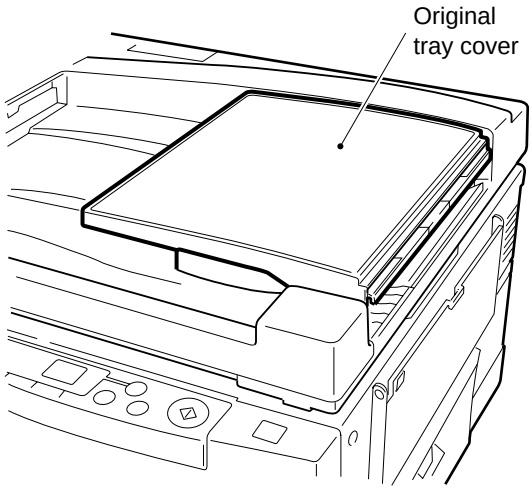

Figure 11-249

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3) Turn on the machine, and place the test sheet prepared in step 1) on the original tray.

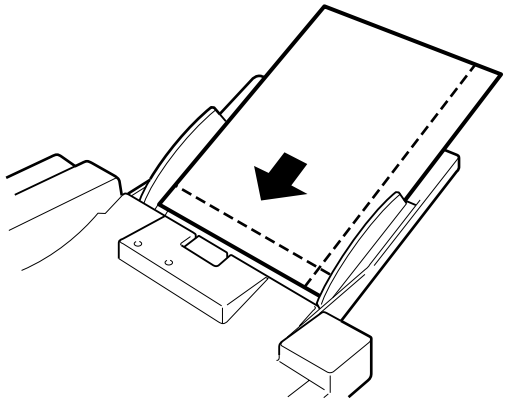

Figure 11-250

4) Press the Copy Start key to make a copy.
5) Check to make sure that the distance L3 on the copy image indicated is 10 ±2.5 mm (standard) or less.

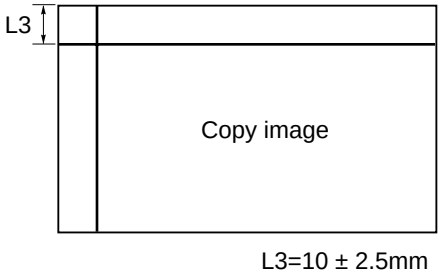

Figure 11-251

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6) If the distance is not as specified, loosen the pinion gear positioning screw under the original tray, and adjust the position of the pinion gear.

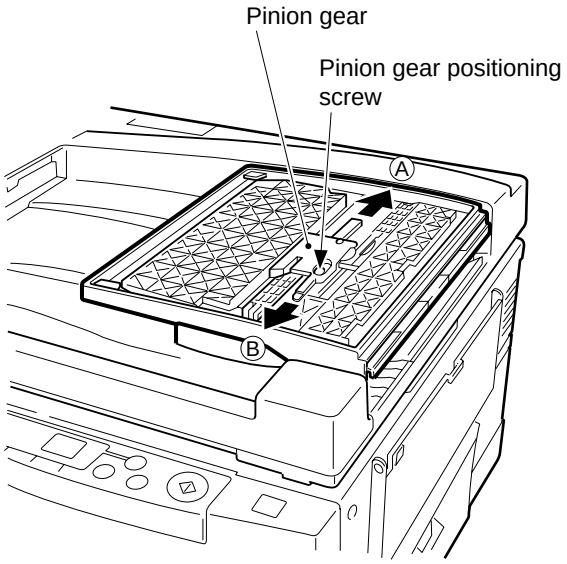

Figure 11-252

Relationship between Pinion Gear Position and L3

Direction of pinion gear	L3
A	Increases
B	Decreases

Table 11-204

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4. Adjusting the Original Leading Edge Stop Position

You must first correct original skew and adjust the rear/front original stop position before adjusting the original leading edge stop position.

1) Obtain a sheet of A4 or LTR white copy paper, and draw two lines as indicated.
   • The sheet will be used as a test sheet.

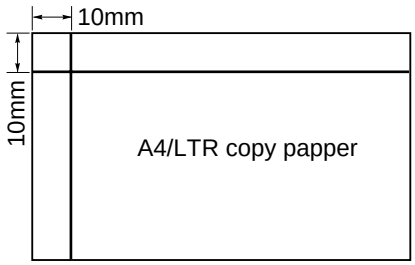

Figure 11-253

2) Remove the screw, and remove the ADF controller cover.

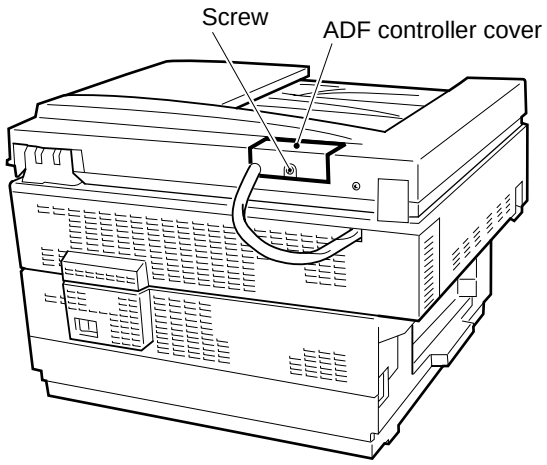

Figure 11-254

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3) Turn on the machine, and place the test sheet prepared in step 1) on the original tray.

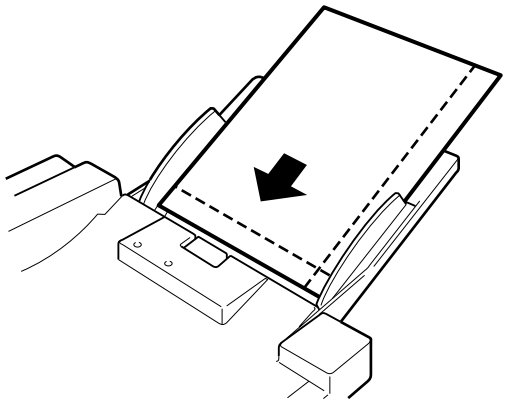

Figure 11-255

4) Press the Copy Start key to make a copy.
5) Check to make sure that the distance L4 on the copy image indicated is 10 +2.0, -2.5 mm (standard) or less.

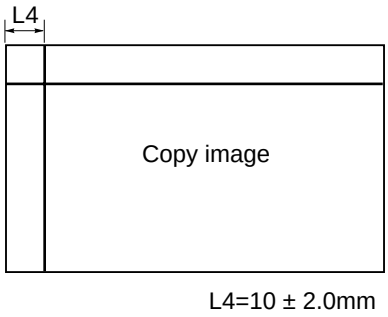

Figure 11-256

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6) If the distance is not as specified, shift bit 1 of the DIP switch (SW1) on the ADF controller PCB to ON, and place an A4 or LTR white copy paper on the original tray.

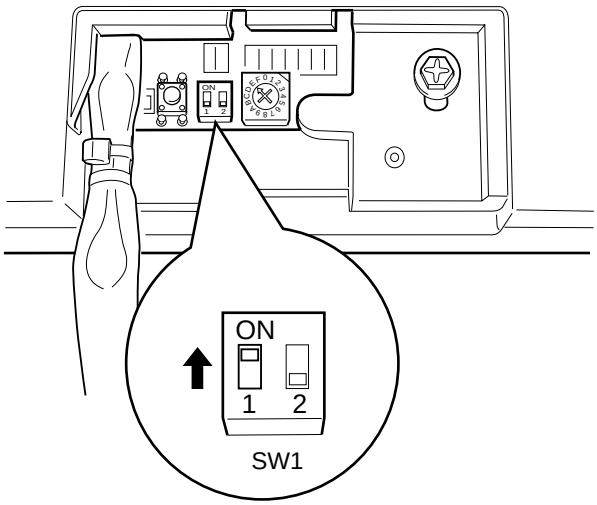

Figure 11-257

7) Press the push switch (PSW) on the ADF controller PCB.
   • The copy paper will be picked up from the original tray and stopped on the copyboard glass.

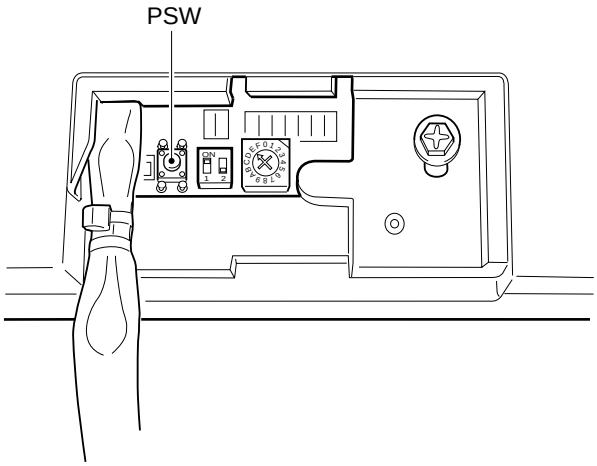

Figure 11-258

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8) Use the rotary switch (SW2) on the ADF controller PCB to adjust the original leading edge stop position.
Moving the rotary switch by a single notch changes the original stop position by about 0.3 mm.
Press the push switch (PSW) after deciding on a position to discharge the copy paper and store the optimum value.

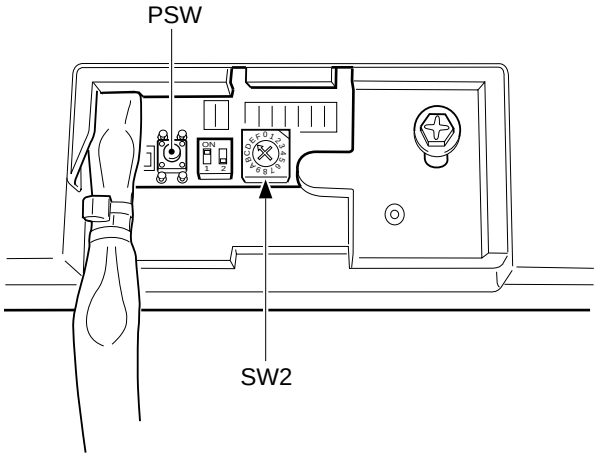

Figure 11-259

Relationship between Rotary Switch Direction and Original Position

Direction of rotary switch	Position (shift) of original
Clockwise	Toward leading edge
Counterclockwise	Toward trailing edge

Table 11-205

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Example:

If L4 is 13 mm,

You must shift the original stop position toward the leading edge by 3 mm.

1) Place a sheet of A4 or LTR white copy paper on the original tray.
2) Shift bit 1 of the DIP switch (SW1) on the ADF controller PCB to ON; then, push the push switch (PSW) to pick up the copy paper.

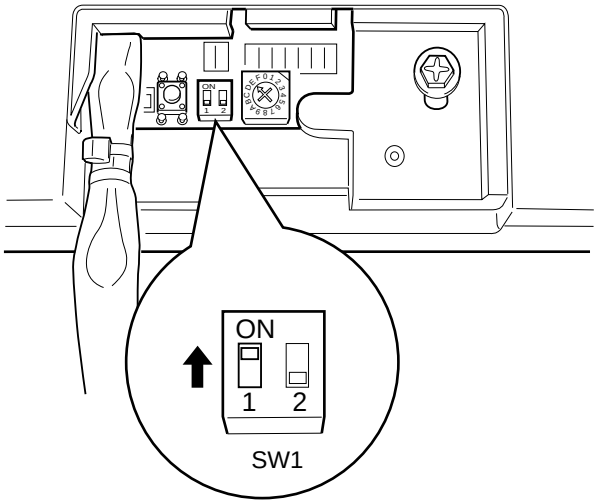

Figure 11-260

3) Turn the rotary switch (SW2) on the ADF controller PCB clockwise by 10 notches.

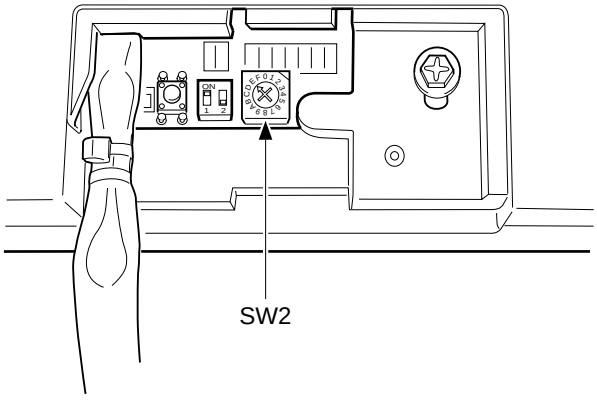

Figure 11-261

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4) Press the push switch (PSW) on the ADF controller PCB.
   • The copy paper on the copyboard will be discharged, and the optimum value will be stored.

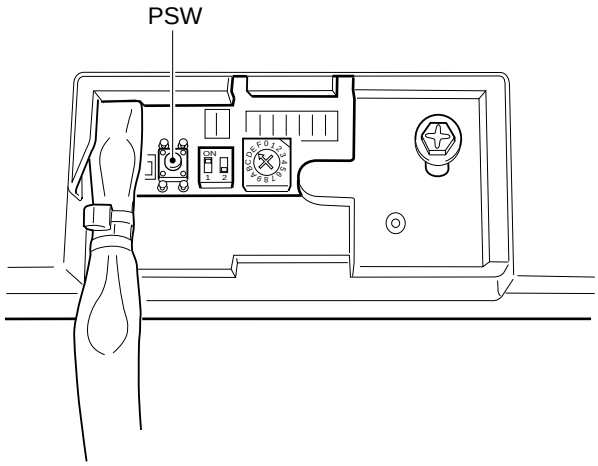

Figure 11-262

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C. Electrical

1. After Replacing the Major Parts

Parts	Adjustment
Scanning lamp	1. Intensity of the scanning lamp 2. AE mechanism
AE sensor PCB	1. AE mechanism
Composite power supply PCB*1	(1. Intensity of the scanning lamp) (2. AE mechanism)
DC controller PCB	1. Intensity of the scanning lamp 2. AE mechanism 3. Leading edge non-image width 4. Image leading edge margin 5. Reproduction ratio (fine adjustment)
ADF controller PCB	1. Excute original leading edge stop position adjustment

*1: If you have replaced the composite power supply PCB, check copy images using the Test Sheet; if (and only if) an image fault is found, adjust the intensity of the scanning lamp and execute AE adjustment.

Table 11-206

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2. Adjusting the Intensity of the Scanning Lamp

Adjust the intensity of the scanning lamp if you have replaced any of the following:

- DC controller PCB
- Composite power supply PCB (See p.11-41.)
- Scanning lamp

Caution:

If you have performed this adjustment, you must always perform AE adjustment.

Making Adjustments

1) Set a cartridge in the machine.
2) Set the density correction switch (SW101) to its middle index.

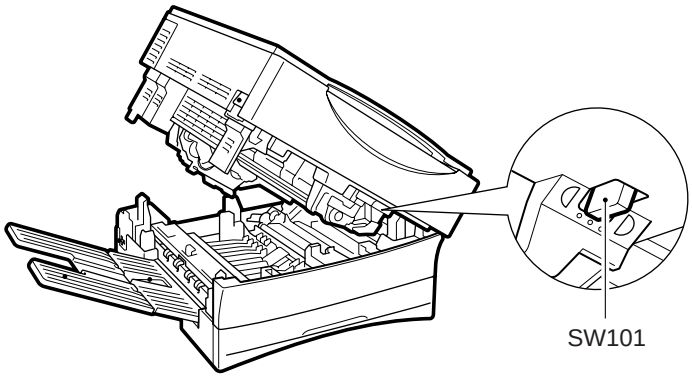

Figure 11-263

3) Turn off the AE mechanism, and set the copy density adjusting lever on the control panel to its middle index.
4) Place the Test Sheet on the copyboard, and make a copy.
5) Turn VR107 on the DC controller PCB gradually until gray scale No. 9 is barely visible.

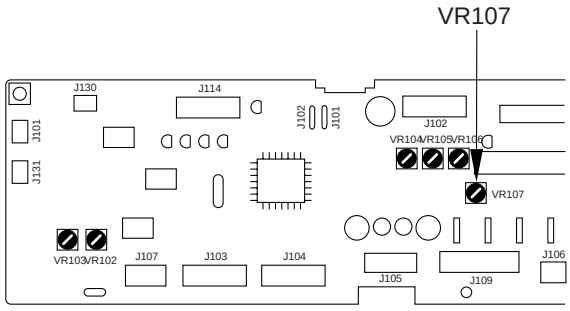

Figure 11-264

VR107 and Copy Density

Direction of VR107	Copy density
Clockwise	Lighter
Counterclockwise	Darker

Table 11-207

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3. AE Adjustment

Perform this adjustment if you have replaced any of the following:

- DC controller PCB
- Composite power supply PCB (See p.11-41.)
- AE sensor PCB
- Scanning lamp

Making Adjustments

Before Starting the Work

- Obtain a newspaper with more or less even print. (Avoid ones with many photos or large display text.)
- Obtain five sheets of white sheets of paper.
- Be sure that the intensity of the scanning lamp has been adjusted when you have replaced the scanning lamp.
- Set the density correction switch (SW101) to the middle setting. If the machine is not equipped with a density correction switch, set the density adjusting lever to the middle setting.

1) Short JP103 and JP104 on the DC controller PCB.

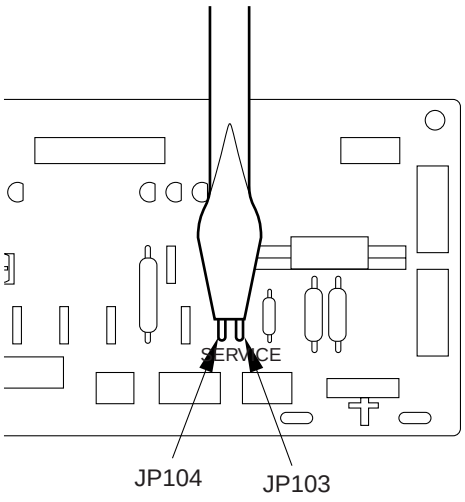

Figure 11-265

2) While keeping the condition in step 1), turn on the power.
   - The scanning lamp will turn on, and the main motor (M1) will rotate.
3) Stop shorting JP103 and JP104.

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4) Turn VR103 on the DC controller PCB fully clockwise.

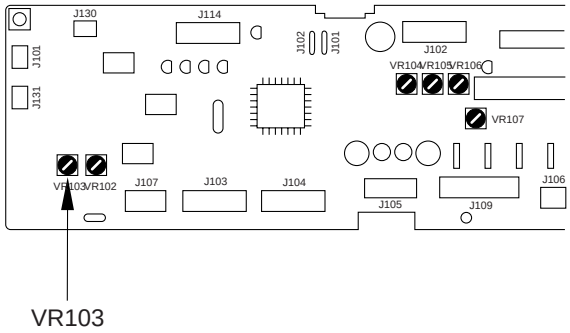

Figure 11-266

5) Place a newspaper on the copyboard, and close the copyboard cover.
6) Turn VR102 so that the display indicates ‘A3’ to ‘Ad’.

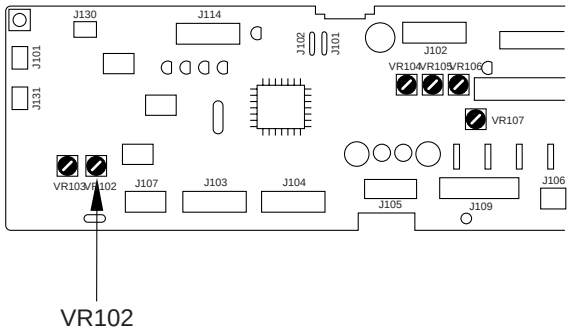

Figure 11-267

7) Remove the newspaper from the copyboard, and place five sheets of copy paper in its place; then, close the copyboard cover.
8) Turn VR103 on the DC controller PCB so that the display will indicate ‘52’ to ‘5c’.

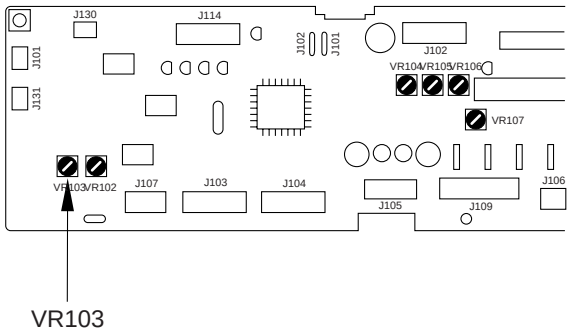

Figure 11-268

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9) Repeat steps 5) through 8) so that the values of both VR102 and VR103 are target values.

Caution:

If you cannot set VR102 and VR103 to the target values at the same time, turn VR103 fully counterclockwise, and go back to step 5) and make adjustments once again.

10) Make a copy, and check to make sure that it is free of fogging and its text is adequately dark.
    - If the copy is foggy or its text is too light, go back to step 1) and start over.
    - If the results of adjustment for a second time are not good, make adjustments using the density correction switch (SW101).

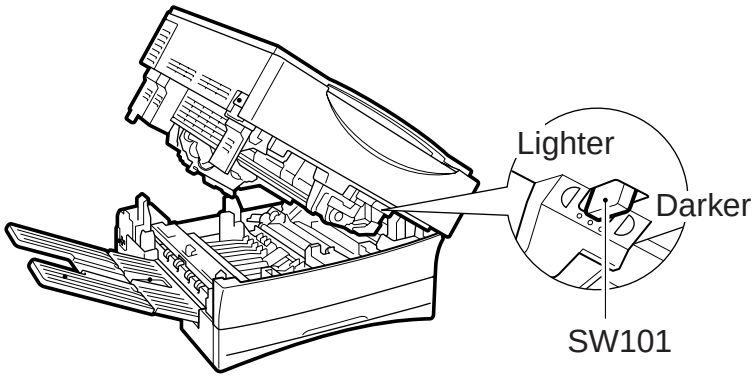

Figure 11-269

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4. Adjusting the Reproduction Ratio (fine adjustment)

Adjust the reproduction ratio if you have replaced the following:

- DC controller PCB

Making Adjustments

Before Starting the Work

- Meter

1) Before replacing the DC controller PCB, turn on the power; then, connect the meter probes to CP23 and GND on the DC controller PCB, and measure the voltage.
   + probe CP23
   - probe .....GND

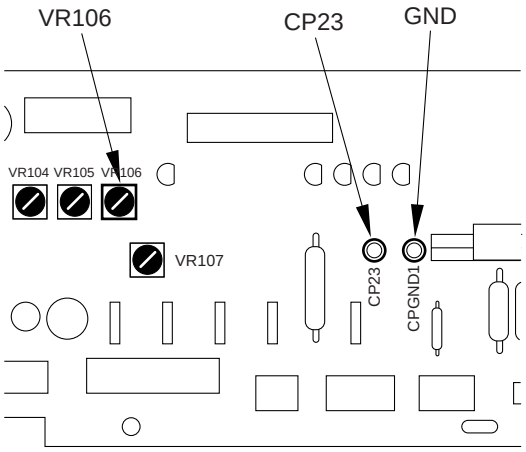

Figure 11-270

2) After replacing the DC controller PCB, measure the voltage as in step 1); then, turn VR106 on the DC controller PCB so that the reading is the same as before replacement.

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5. Checking the Photointerrupters

1) Set the meter range to 12 VDC.
2) Connect the - probe to GND (CPGND1) on the DC controller PCB.

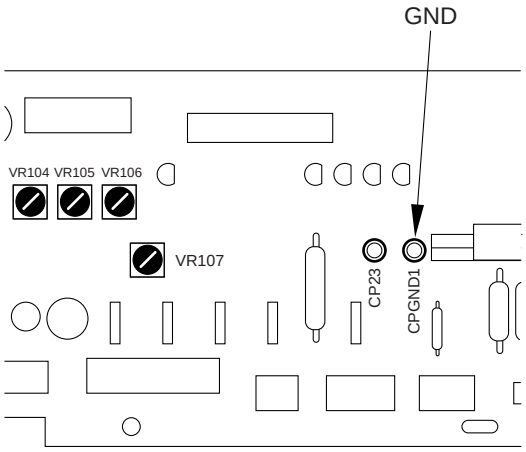

Figure 11-271

3) Make checks as instructed.

Reference:

The photointerrupers other than those shown in Table 11-209 are connected in a matrix, hence the omission from the table.

Sensor	Connector	Checks		Voltage (approx.)
PS1 Scanner home position sensor (SCHP)	J101-3	During standby, move the scanner by hand.	When the light-blocking plate is at PS1, When the light-blocking plate is not at PS1,	5V 0V
PS2 Lens home position sensor (LHP)	J109-10	During standby, move the lens mount by hand.	When the light-blocking plate is at PS2, When the light-blocking plate is not at PS2,	5V 0V
PS4 Vertical path roller paper sensor (PDP)	J132-5	During standby, move the detecting lever by hand.	When the light-blocking plate is at PS4, When the light-blocking plate is not at PS4,	5V 0V
Q751 Pre-registration roller paper sensor (RPD)	J108-3	During standby, move the detecting lever by hand.	When the light-blocking plate is at Q751, When the light-blocking plate is not at Q751,	0V 5V

Table 11-208

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III. TROUBLESHOOTING IMAGE FAULTS

A. Making Initial Checks

1. Site Environment

Check the site against the following considerations:

a. The voltage of the power source is as rated.
b. The site must not be subject to high temperature or humidity (as near a water faucet, water boiler, humidifier) or dust. The machine must not be near a source of fire.
c. The site must not be subject to ammonium gas.
d. The machine must not be exposed to direct rays of the sun. (As necessary, instruct the user to provide curtains.)
e. The site must be well ventilated.
f. The machine must be kept level.

2. Checking the Originals

Check the originals to find out whether the problem in question is caused by the machine or the originals.

a. The copy density adjusting lever is often best if set to the middle index.
b. Originals with a red tint tend to produce copies with poor contrast; e.g., red sheets.
c. Originals which are diazo copies or with transparency tend to produce copies which can be mistaken for "foggy" copies.
   Originals prepared in pencil tend to produce copies with "light" images.

3. Copyboard Cover and Copyboard Glass

If the copyboard cover or the copyboard glass is soiled, clean it with mild detergent solution or alcohol; if scratched, replace it.

4. Lens

Check the lens for dirt. If any, clean it with a cotton swab.

5. Checking the Transfer Charging Roller

a. Check the transfer charging roller for dirt or fault (scratches).

6. Feeding Assembly

Check the feeding assembly for dirt. If any dirt is found, clean it with a moist cloth.

7. Copy Paper

a. Is copy paper of a type recommended by Canon?
b. Is copy paper moist?
   Try paper fresh out of package.

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8. Consumable

a. Cartridge

When the cartridge starts to run out of toner, copies will start to have white lines or spots as shown.

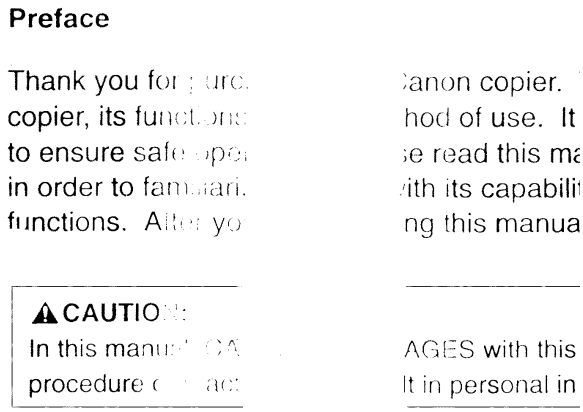

Figure 11-301

Try the following as necessary:

1) Take out the cartridge from the machine, and shake it several times.

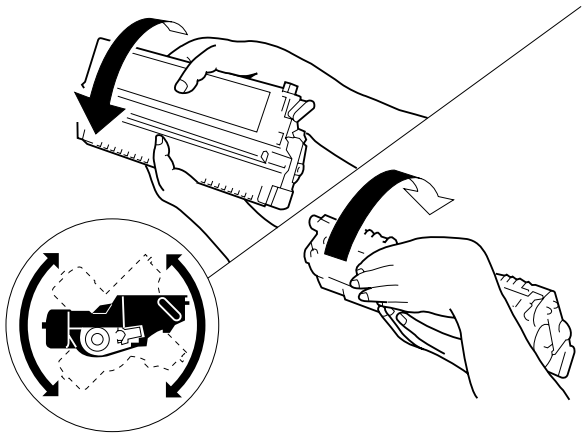

Figure 11-302

2) Set the cartridge back into the machine, and make copies.
   - If the copies are normal,
     You may continue to use the cartridge, but the user must know that it must be replaced with a new cartridge soon.
   - If the copies are not normal,
     Replace the new cartridge.

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9. Others

When a machine is brought in from a cold place (e.g., warehouse) to a warm place, condensation can occur inside it, leading to various problems; e.g.,

a. Condensation on the scanner (glass, lens, mirror, reflecting plate) will cause dark images.
b. The drum is likely to be cold (high OPC electrical resistance), not enabling good contrast.
c. Condensation in the pickup/feeding assembly tends to cause feeding faults.
d. Condensation on the lower roller of the manual feed assembly will reduce friction, causing pickup faults.

If condensation is noted, dry wipe the parts in question.

The cartridge can develop condensation if it is opened immediately after it has been brought from a cold to warm place. Instruct the user so that the cartridge is not opened before it has become used to the room temperature (one to two hours).

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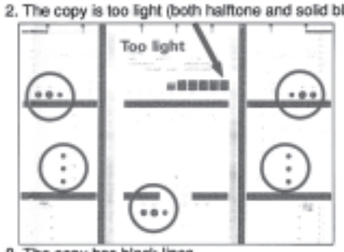
B. Image Fault Samples

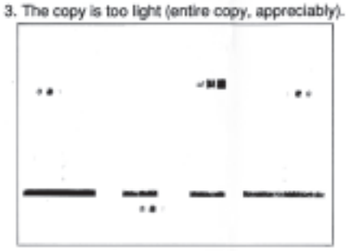
NOTE: The samples are created intentionally. The NA-3 Test Sheet was copied in the direct mode in A3 and printed with a reduction of about 19%; actual images may be somewhat different.

1. The copy is too light (halftone only).

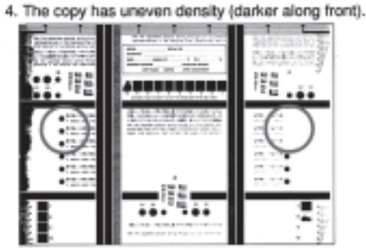
2. The copy is too light (both halftone and solid black).



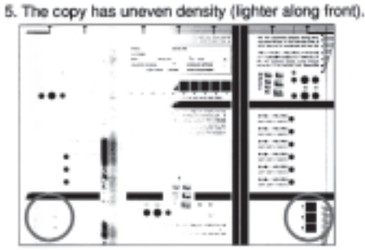
3. The copy is too light (entire copy, appreciably).



4. The copy has uneven density (darker along front).

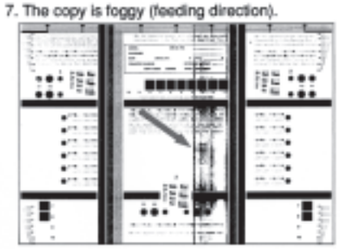


5. The copy has uneven density (lighter along front).



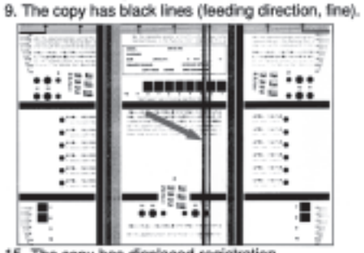
6. The copy is foggy (entire copy).

7. The copy is foggy (feeding direction).

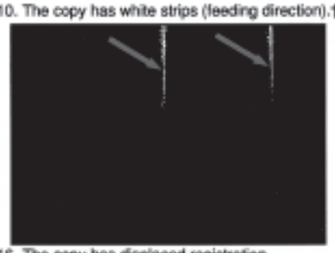


8. The copy has black lines (feeding direction, fuzzy, thick).

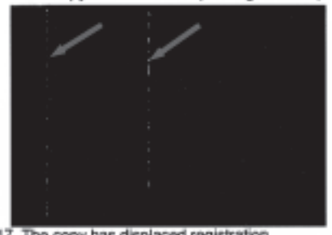
9. The copy has black lines (feeding direction, fine).



10. The copy has white strips (feeding direction).†

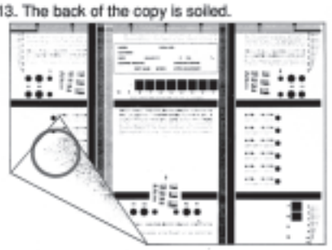


11. The copy has white lines (feeding direction).*



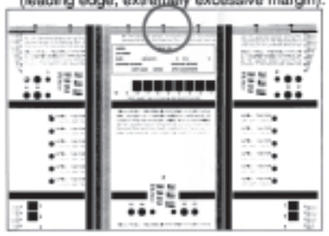
12. The copy has white strips (cross-feeding direction).

13. The back of the copy is soiled.



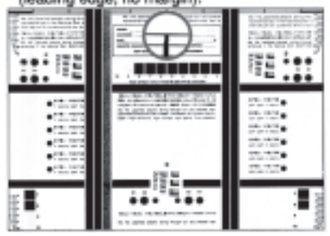
14. The copy has poor fixing.

15. The copy has displaced registration (leading edge, extremely excessive margin).

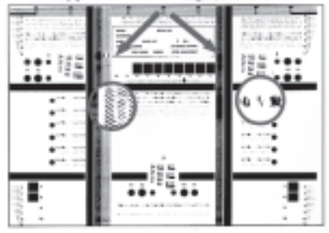


16. The copy has displaced registration (leading edge, excessive margin).

17. The copy has displaced registration (leading edge, no margin).

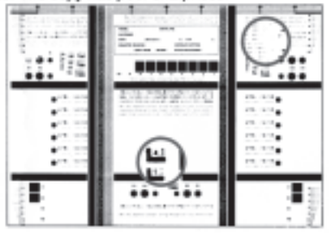


18. The copy has blurred images.



19. The copy is foggy (cross-feeding direction).

20. The copy has poor sharpness.



21. The copy is blank.

22. The copy is solid black.

* Copies made with the copyboard lifted; faults may also appear on normally made copies.
† Strips may vary in width.

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C. Troubleshooting Image Faults

1	**The copy is too light. (halftone area only)**
2	**The copy is too light. (including solid area)**
3	**The copy is too light. (enter image, appreciably)**

Cause	Step	Checks	YES/NO	Action
Lens, Reflecting plate, AE sensor, Static eliminator	1	Clean the lens, reflecting plate, AE sensor, and static eliminator. Is the problem corrected?	YES	End.
----------	2	Turn off the power in the middle of a copying run, and open the machine's top unit. Is the toner image before transfer more or less normal? (Be sure to make a check in a short time to protect the drum from light.)	NO	Go to step 6.
Transfer charging roller	3	Is the transfer charging roller normal?	NO	1. Mount the transfer charging roller correctly. 2. Replace the transfer charging roller.
Copy paper	4	Try fresh copy paper. Is the problem corrected?	YES	1. The copy paper may be moist. Instruct the user on the correct method of storage. 2. Inform the user that using non-recommended paper may not bring the best results.
Transfer lower guide, Varistor	5	Measure the electrical resistance on the transfer lower guide plate and the side plate (metal) of the fixing assembly. Is it 0Ω?	YES	1. Check to find out if the transfer lower guide happens to be in contact with a metal part (side plate). 2. Replace the varistor.
Composite power supply PCB, DC controller PCB			NO	1. Check the transfer high-voltage terminal contacts for electrical continuity. 2. Check the composite power supply and the DC controller PCB.
Cartridge	6	Replace the cartridge. Is the problem corrected?	YES	End.
Developing bias, Developing bias terminal			NO	Replace the electric unit (composite power supply PCB, DC controller PCB).

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4 The copy has uneven density. (darker at front)
5 The copy has uneven density. (lighter at front)

Cause	Step	Checks	YES/NO	Action
Scanner	1	Clean the scanning lamp, reflecting plate, lens, and mirror. Is the problem corrected?	YES	End.
Cartridge, Scanning lamp	2	Turn off the power in the middle of a copying run, and open the machine. Is the toner image on the photosensitive drum before transfer more or less uneven?	YES	1. Replace the cartridge. 2. Replace the scanning lamp.
Transfer charging roller			NO	1. Mount the transfer charging roller correctly. 2. Replace the transfer charging roller correctly.

6 The copy is foggy. (entire face)

Cause	Step	Checks	YES/NO	Action
----------	1	Is the density correction switch (SW101) or the density adjusting lever set to the middle setting?	NO	Set the switch or the lever to the middle setting, and make a copy. If the image is still foggy, to step 2).
Scanner	2	Clean the scanning lamp, reflecting plate, lens, and mirror. Is the problem corrected?	YES	End.
Grounding spring	3	Set the cartridge in the machine. Is there electrical continuity between the PCB of the base of the drum and the machine's top unit?	NO	Check to see if the grounding spring is mounted correctly (in reference to the drum drive gear).
Scanning lamp, Developing bias			YES	1. Check the activation of the scanning lamp. 2. Check the developing assembly.

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7	**The copy is foggy vertically.**
8	**The copy has black lines. (vertical, fuzzy, thick)**
9	**The copy has black lines. (vertical, fine)**

Cause	Step	Checks	YES/NO	Action
Scanner	1	Clean the scanning lamp, reflecting plate, lens, and mirror. Is the problem corrected?	YES	End.
Transfer guide assembly	2	Clean the transfer guide assembly. Is the problem corrected?	YES	End.
Cartridge	3	Take out and then set the cartridge once again. Is the problem corrected?	YES	End.
			NO	Replace the cartridge.

10	**The copy has white spots. (vertical)**
11	**The copy has white lines. (vertical)**

Cause	Step	Checks	YES/NO	Action
Fixing assembly	1	Turn off the power in the middle of a copying run, and open the machine's top unit. Does the copy image before moving through the fixing assembly have white spots or white lines?	YES	Check the fixing assembly.
Cartridge	2	Shake the cartridge several times. Is the problem corrected?	YES	Inform the user that the cartridge is running out of toner.
Static eliminator	3	Clean the static eliminator. Is the problem corrected?	YES	End.
Transfer charging roller	4	Is there foreign matter or scratches in the transfer charging roller assembly?	YES	Remove the foreign matter, or replace the transfer charging roller.
Cartridge			NO	Replace the cartridge.

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12 The copy has white spots. (horizontal)

Cause	Step	Checks	YES/NO	Action
Copy paper	1	Is the paper of a recommended type?	YES	Try a recommend type. If the results are good, ask the user to use a recommended type.
	2	Try paper fresh out of package. Is the problem corrected?	YES	The paper may be moist. Instruct the user on the correct method of storing paper.
Scanner rail	3	Is the problem noted at the same position on all copies?	Yes	1. Check the scanner rail for foreign matter. 2. Adjust the tension of the scanner cable.
Scanning lamp, Developing bias			NO	Check the scanning lamp for flickering and the presence/absence of a developing bias.

13 The back of the copy is soiled.

Cause	Step	Checks	YES/NO	Action
----------	1	Turn off the power while copy paper is moving through the feeding assembly. Is the back of the paper soiled?	NO	Go to step 3.
Transfer guide assembly	2	Is the transfer guide assembly soiled?	YES	1. Clean the transfer guide. 2. Clean the registration roller. 3. Check the varistor. 4. Check the cartridge for leakage of toner.
Feeding assembly	3	Is the feeding assembly soiled?	YES	Clean the feeding assembly.
Pickup guide assembly, Delivery roller			NO	Clean the pickup guide assembly and the delivery roller.

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14 The copy has a fixing fault.

Cause	Step	Checks	YES/NO	Action
Copy paper	1	Is the copy paper of a recommended type?	NO	Try a recommended type. If the results are good, ask the user to use a recommended type.
Fixing film	2	Is the problem vertical and, in addition, in the form of lines?	YES	Check the fixing film and the fixing lower roller for scratches. If there are scratches, replace them.
Fixing heater	3	Does the heater turn on when the Copy Start key is pressed?	NO	See "The fixing heater fails to turn on."
DC controller PCB, Composite power supply PCB			YES	The control temperature of the fixing heater is likely to be too low. Check the fixing assembly top unit, DC controller PCB, and composite power supply PCB.

15 The copy has a misplaced leading edge. (extremely excess margin)
16 The copy has a misplaced leading edge. (excess margin)
17 The copy has a misplaced leading edge (no margin)

Cause	Step	Checks	YES/NO	Action
Pickup roller, Pickup clutch, Cassette	1	Make copies using the cassette and manually. Are the results the same?	NO	Check the pickup roller, pickup clutch, and cassette. Or, replace them.
Sensor (PS1), Light-blocking plate	2	Are the scanner home position sensor (PS1) and the light-blocking plate normal? (See the instructions on how to check the photointerrupter.)	NO	Replace the sensor, or check the light-blocking plate.
VR104	3	Adjust the image leading edge margin. (p. 11-6) Is the problem corrected?	YES	End.
Solenoid (SL2), DC controller PCB	4	Does the registration clutch solenoid (SL2) operate normally?	NO	1. Check the solenoid (SL2). 2. Check the DC control PCB.
Copy paper	5	Is the paper of a recommended type?	NO	Try a recommended type. If the results are good, ask the user to use a recommended type.
Registration clutch			YES	Check the registration clutch.

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18 The copy has a blurred image.

Cause	Step	Checks	YES/NO	Action
Scanner drive cable	1	Does the cable wind on itself when the scanner is moving? Or, is the cable too slack or too taut?	YES	1. Route the cable correctly. 2. If the cable is twisted or frayed, replace it.
Scanner rail	2	Move the No. 1 mirror mount slowly by hand. Does it move slowly?	NO	Clean the surface of the scanner rail with alcohol. Then, apply lubricant. (CK-0551)
----------	3	Is abnormal noise heard from the scanner motor?	YES	See "The scanner fails to move forward/in reverse."
Feeding system	4	Does the copy paper spring up or stop around the transfer assembly?	YES	Check the feeding assembly for burrs.
Cartridge			NO	Replace the cartridge.

19 The copy has horizontal fogging.

Cause	Step	Checks	YES/NO	Action
Scanning lamp	1	Does the scanning lamp flicker?	YES	Replace the scanning lamp.
Cartridge, High-voltage transformer assembly	2	Replace the cartridge. Is the problem corrected?	YES	End.
			NO	Check the high-voltage transformer (composite power supply PCB).
Scanning system	3	Make a reduced copy, and compare it against one made in Direct. Is the problem found at different positions?	YES	Check the scanning system.
Feeding system			NO	Check the feeding system.

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20 The copy has poor sharpness. (out-of-focus)

Cause	Step	Checks	YES/NO	Action
----------	1	Is the image also too light?	YES	Correct the light image problem first.
Original	2	Is the original off the copyboard glass?	YES	1. Check the copyboard cover too see if it happens to be warping. 2. Instruct the user on the correct method of placing originals.
Lens	3	Turn off and then on the power switch. Does the lens move smoothly?	NO	Check the lens rail for foreign matter, and clean it.
Mirror position	4	Is the horizontal ratio in Direct within specification?	NO	Adjust the distance between No. 1 mirror and the No. 2 mirror.
Scanner	5	Clean the scanning lamp, reflecting plate, mirror, and lens. Is the problem corrected?	YES	End.
Cartridge			NO	Replace the cartridge.

21 The copy is blank.

Cause	Step	Checks	YES/NO	Action
Cartridge	1	Is the cartridge set in the machine?	NO	Set the cartridge in the machine.
	2	Does the cartridge have toner?	YES	Replace the cartridge.
	3	Has the open seal been removed?	NO	Remove the opening seal.
	4	Set the cartridge in the machine, and close the machine. Does the drum cover shutter open properly?	NO	Check the cartridge.
Drum drive assembly	5	Does the drum drive gear rotate normally?	NO	Check the drum drive assembly.
High-voltage transformer	6	Is the primary charging terminal on the front left of the cartridge in firm contact with the high-voltage terminal at the machine's bottom?	YES	Check the high-voltage transformer (composite power supply PCB).
Primary high-voltage charging terminal, cartridge			NO	1. Check the contacts for electrical continuity. 2. Replace the cartridge

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22 The copy is solid black.

Cause	Step	Checks	YES/NO	Action
----------	1	Does the scanning lamp remain on during copying?	NO	See “The scanning lamp fails to turn on.”
			YES	Is the cartridge set correctly?

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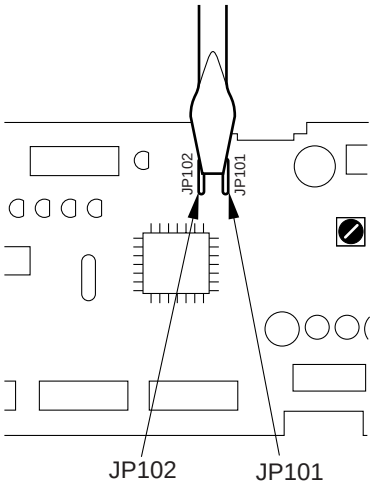
IV. TROUBLESHOOTING MALFUNCTIONS

A. Troubleshooting Malfunctions

1	E0

Cause	Step	Checks	YES/NO	Action
----------	1	1) Turn off the power, and short JP101 and JP102 on the DC controller PCB with a screwdriver.  **Figure 11-401** 2) While keeping the condition in step 1), turn on the power switch. 3) Is an error code indicated in response to a press on the Copy Start key?	YES NO	See the instructions given for the respective error code. End.

2 E000

Cause	Step	Checks	YES/NO	Action
Thermistor (TH1)	1	Are the connection of J102 on the DC controller PCB and the wiring to the thermistor (TH1) normal?	NO	Correct the connection of J102 on the DC controller PCB and the wiring to the thermistor (TH1).
Heater, Fuse (FU2)	2	Is there electrical continuity between J207-1 and -2 on the fixing heater side?	NO	Check the wiring from the composite power supply PCB to the fixing heater; if normal, replace the fixing assembly upper unit.
Thermistor (TH1)	3	Replace the fixing upper unit. Is the problem corrected?	YES	End.
Composite power supply PCB	4	Replace the composite power supply PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

3 E001

Cause	Step	Checks	YES/NO	Action
Thermistor (TH1)	1	Are the connection of J102 on the DC controller PCB and the wiring to the thermistor (TH1) normal?	NO	Correct the connection of J102 on the DC controller PCB and the wiring to the thermistor (TH1).
Thermistor	2	Replace the fixing assembly upper unit. Is the problem corrected?	YES	End.
Composite power supply PCB	3	Replace the composite power supply PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

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4 E002, E003

Cause	Step	Checks	YES/NO	Action
Thermistor (TH1)	1	Is the connection of J102 on the DC controller PCB and the wiring to the thermistor (TH1) normal?	NO	Correct the connection of J102 on the DC controller PCB and the wiring to the thermistor (TH1).
Heater, Fuse (FU2)	2	Is there electrical continuity between J207-1 and -2 on the fixing heater side?	NO	Check the wiring from the composite power supply PCB to the fixing heater; if normal, replace the fixing upper unit.
Thermistor (TH1)	3	Replace the fixing assembly upper unit. Is the problem corrected?	YES	End.
Composite power supply PCB	4	Replace the composite power supply PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

5 E010

Cause	Step	Checks	YES/NO	Action
Wiring 1	1	Are the connection of J205 on the composite power supply PCB and the wiring to the main motor (M1) normal?	NO	Correct the connection of J205 on the composite power supply PCB and the wiring to the main motor (M1).
Wiring 2	2	Is the wiring from J203 and J202 on the composite power supply PCB to J103 and J105, respectively, on the DC controller PCB normal?	NO	Correct the connection and wiring of the connectors.
DC power supply	3	Turn on the power switch. Is the voltage between J901-1 (+) and -2 (-) on the main motor drive PCB about 24 V?	NO	Check the wiring from the main motor driver PCB to the composite power supply PCB; if normal, see “DC power fails to turn on.”
Main motor (M1)	4	Replace the main motor (M1). Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

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6 E064

Cause	Step	Checks	YES/NO	Action
Wiring	1	Turn off and then on the power switch; then, set the copy count to '1'. Is 'E064' indicated at the end of a copying run?	YES	Check the wiring between the DC controller PCB and the composite power supply PCB. Check the wiring between the composite power supply PCB and the high-voltage contact PCB.
High-voltage contact	2	Is the connection between the high-voltage contacts of the machine's top and bottom units normal?	NO	Correct the high-voltage contacts of the machine's top and bottom units.
Transfer charging roller	3	Is the transfer charging roller or the contact faulty?	YES	Replace the transfer charging roller.
Primary charging roller	4	Replace the cartridge. Is the problem corrected?	YES	End.
High-voltage cable	5	Does the high-voltage cable have scratches or tears?	YES	Replace the high-voltage cable.
Composite power supply PCB	6	Replace the composite power supply PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

7 The keys on the control panel are locked. ('E202')

Cause	Step	Checks	YES/NO	Action
----------	1	Is the scanner in the home position when 'E202' turns on?	NO	See “The scanner fails to move forward.”
Scanner home position sensor (PS1)	2	Is the scanner home position sensor (PS1) normal? (For instructions on how to check photointerrupers, see p. 11-47.)	NO	Check the wiring from J101 on the DC controller PCB to PS1; if normal, replace PS1.
DC controller PCB			YES	Replace the DC controller PCB.

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8 E210

Cause	Step	Checks	YES/NO	Action
----------	1	Does the lens move when the power is turned on?	NO	See “The lens fails to move.”
Lens home position sensor (PS2)	2	Is the lens home position sensor (PS2) normal? (For instructions on how to check the photointerrupers, see p. 11-47.)	NO	Check the wiring from J109 on the DC controller PCB to PS2; if normal, replace PS2.
DC controller PCB			YES	Replace the DC controller PCB.

9 E220

Cause	Step	Checks	YES/NO	Action
----------	1	Does the scanning lamp turn on when the Copy Start key is pressed?	NO	See “The scanning lamp fails to turn on.”
Composite power supply PCB	2	Replace the composite power supply PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

10 E240

Cause	Step	Checks	YES/NO	Action
Wiring	1	Is the wiring from J203 and J204 on the composite power supply PCB and J103 and J104, respectively, on the DC controller PCB normal?	NO	Correct the connection and the wiring of the connectors.
Composite power supply PCB	2	Replace the composite power supply PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

11 E261

Cause	Step	Checks	YES/NO	Action
Power supply frequency	1	Turn off and then on the power switch. Is the problem corrected?	YES	End. However, if ‘E261’ occurs frequently, advise the user to use a frequency stabilizer.
Composite power supply PCB			NO	Replace the composite power supply PCB.

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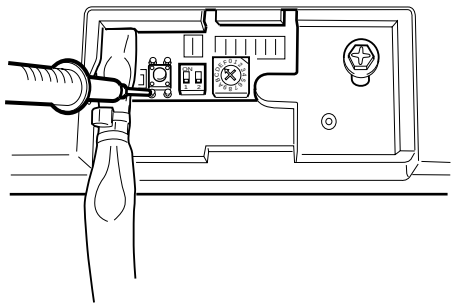
12 E400

Cause	Step	Checks	YES/NO	Action
----------	1	Turn off and then on the power. Is the probrem corrected?	YES	End. (Check the wiring between the copier's DC controller PCB and the ADF controller PCB.)
5V power supply	2	Set the matter to the 20VDC range, and connect the + probe to the foot of the push swich on the ADF controller PCB and the - probe to the copier ground. Is the voltage about 5V?  **Figure 11-402**	NO	Replace the ADF controller PCB.
ADF controller PCB	3	Replace the ADF controller PCB. Is the problem corrected?	YES	End.
			NO	Replace the copier's DC controller PCB.

13 E803

Cause	Step	Checks	YES/NO	Action
Malfunction	1	Turn off and then on the power switch. Is the problem corrected?	YES	End.
DC controller PCB.	2	Replace the DC controller PCB. Is the problem corrected?	YES	End.
Composite power supply PCB			NO	Replace the composite power supply PCB.

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14 AC power fails to turn on.

Cause	Step	Checks	YES/NO	Action
Power plug	1	Is the power plug connected to the power outlet?	NO	Connect the power plug.
----------	2	Turn on the power switch. Is 'E0' indicated in the display?	YES	See the descriptions under "E0."
Machine top unit	3	Is the machine's top unit closed firmly?	NO	Close the machine's top unit.
Power supply	4	Is the rated voltage present at the power outlet?	NO	Inform the user that the problem is not the machine's.
Fuse (FU501)	5	Is the fuse (FU501) on the noise filter PCB blown? (120V model: 250 V, 15 A 220/240V model: 250 V, 6.3 A)	YES	Remove the cause, and replace the fuse.
Fuse (FU102)	6	Is the fuse (FU102) on the composite power supply PCB blown? (120V model: 125 V, 5 A 220/240V model: 250 V, 2.5 A)	YES	Remove the cause of the problem, and replace the fuse.
Door switch (DS1)	7	Remove the door switch (DS1), and connect the meter probes to F1 and F3 or F2 and F4 of the faston of the door switch. Is the resistance about 0 Ω when the actuator is pressed add about ∞ Ω when it is released?	NO	Replace the door switch (DS1).
Noise filter PCB	8	Is the rated voltage present between J501-1 and -2?	NO	Replace the noise filter PCB.
Harness	9	Is the rated voltage present between J201-1 and J201-2?	NO	Check the connectors and the wiring if they are normal.
Connector connection 1	10	Is there electrical continuity between J111-15 on the DC controller PCB and J301-15 on the control panel PCB?	NO	Correct the electrical continuity of J111 on the DC controller PCB and J301 on the control panel PCB.
Connector connection 2	11	Is there electrical continuity between J204-1 on the composite power supply PCB and J104-7 on the DC controller PCB?	NO	Check the connection of J104 on the DC controller PCB and J204 on the composite power supply PCB; if normal, replace the DC controller PCB.
Control panel PCB	12	Replace the control panel PCB.Is the problem corrected?	YES	End.
Composite power supply PCB			NO	Replace the composite power supply PCB.

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15 DC power fails to turn on.

<table>
<tr><th>Cause</th><th>Step</th><th>Checks</th><th>YES/NO</th><th>Action</th></tr>
<tr><td>AC power supply</td><td>1</td><td>Is AC power present between J201-1 and -2 on the composite power supply PCB?</td><td>NO</td><td>See “AC power fails to turn on.”</td></tr>
<tr><td>Wiring, DC load</td><td>2</td><td>Turn off the power switch, and disconnect J202 and J205 from the composite power supply PCB.
Set the meter range to 30 VDC, and turn on the power switch. Is the voltage between the following terminals normal?
<table>
<tr><th>Connector</th><th>Pin</th><th>Output</th><th>Remarks</th></tr>
<tr><td>J202</td><td>1
2
3
4
5
6</td><td>GND
24V
5V
5V
GND
24V</td><td>To DC controller PCB</td></tr>
<tr><td>J205</td><td>1
2
3
4</td><td>-
-
GND
24V</td><td>To main motor driver PCB</td></tr>
</table>
Table 11-401</td><td>YES</td><td>See the descriptions under “E0.”</td></tr>
<tr><td>Fuse</td><td rowspan="2">3</td><td rowspan="2">Is the fuse (FU102) on the composite power supply PCB blown?
(120V model: 125 V, 5 V
220/240V model: 250 V, 2.5 A)</td><td>YES</td><td>Remove the cause of the problem, and replace the fuse.</td></tr>
<tr><td>Composite power supply PCB</td><td>NO</td><td>Replace the composite power supply PCB.</td></tr>
</table>

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16 Pickup fails. (cassette)

<table>
<tr><th>Cause</th><th>Step</th><th>Checks</th><th>YES/NO</th><th>Action</th></tr>
<tr><td>Main motor (M1)</td><td>1</td><td>Does the main motor (M1) rotate when the Copy Start key is pressed?</td><td>NO</td><td>See “The main motor fails to rotate.”</td></tr>
<tr><td>Cassette</td><td>2</td><td>Is the cassette set correctly?</td><td>NO</td><td>Set the cassette correctly.</td></tr>
<tr><td>Paper in cassette</td><td>3</td><td>Is the paper in the cassette placed correctly?</td><td>NO</td><td>Instruct the user on the correct method of placing paper.</td></tr>
<tr><td>Pickup clutch solenoid (SL1), Cassette pickup solenoid (SL5)</td><td>4</td><td>Set the meter range to 30 VDC, and connect the meter probes to the following terminals. Does the voltage change to about 24 V in keeping with pickup operation?<table><tr><th></th><th>+</th><th>-</th></tr><tr><td>Pickup clutch solenoid (SL1)</td><td>J109-4</td><td>J109-3</td></tr><tr><td>Cassette pickup solenoid (SL5)</td><td>J132-2</td><td>J132-1</td></tr></table>Table 11-402</td><td>NO</td><td>Check the wiring from the solenoid to the DC controller PCB; if normal, replace the solenoid.</td></tr>
<tr><td>Cassette spring</td><td rowspan="2">5</td><td rowspan="2">Is the force of the cassette spring within specification? (See p. 11-10.)</td><td>NO</td><td>Replace the cassette spring.</td></tr>
<tr><td>DC controller PCB</td><td>YES</td><td>Replace the DC controller PCB.</td></tr>
</table>

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17 Pickup fails. (multifeeder)

<table>
<tr><th>Cause</th><th>Step</th><th>Checks</th><th>YES/NO</th><th>Action</th></tr>
<tr><td>Wrong operation</td><td>1</td><td>Is the multifeeder selected on the control panel?</td><td>NO</td><td>Instruct the user on the correct way of operating the machine.</td></tr>
<tr><td>Main motor (M1)</td><td>2</td><td>Does the main motor (M1) rotate when the Copy Start key is pressed?</td><td>NO</td><td>See “The main motor fails to rotate.”</td></tr>
<tr><td>Paper placement</td><td>3</td><td>Is the paper placed in the multifeeder correctly?</td><td>NO</td><td>Instruct the user on the correct way of placing paper.</td></tr>
<tr><td>Multifeeder pickup solenoid (SL4), Pickup clutch solenoid (SL1)</td><td rowspan="2">4</td><td rowspan="2">Set the meter range to 30 VDC, and connect the meter probes as indicated. Does the voltage change to about 24 V in keeping with pickup operation?
<table><tr><th></th><th>+</th><th>-</th></tr><tr><td>Multifeeder pickup solenoid (SL4)</td><td>J109-8</td><td>J109-7</td></tr><tr><td>Pickup clutch solenoid (SL1)</td><td>J109-4</td><td>J109-3</td></tr></table></td><td>NO</td><td>Check the wiring from the solenoid to the DC controller PCB; if normal, replace the solenoid in question.</td></tr>
<tr><td>DC controller PCB</td><td>YES</td><td>Replace the DC controller PCB.</td></tr>
</table>

Table 11-403

18 Pickup fails. (single-feeder)

Cause	Step	Checks	YES/NO	Action
Main motor (M1)	1	Does the main motor rotate when the Copy Start key is pressed?	NO	See “The main motor fails to rotate.”
Single-feeder paper sensor (PS5)	2	Is the single-feeder paper sensor (PS5) normal?	NO	Check the wiring from J113 to PS5 on the DC control PCB; if normal, replace PS5.
DC controller PCB			YES	Replace the DC controller PCB.

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19 The scanner fails to move forward.

Cause	Step	Checks	YES/NO	Action
Cable	1	Is the scanner drive cable routed correctly?	NO	Route the cable correctly.
Scanner path	2	Is the scanner rail soiled? Move the scanner by hand. Does it move smoothly?	NO	Check the surface of the scanner rail for dirt, foreign matter, or object which may interfere.
Composite power supply PCB	3	Set the meter range to 30 VDC, and connect the meter probes to J202-2 (+) and -1 (-) on the composite power supply PCB. Is the meter reading about 24 V?	NO	See “DC power fails to turn on.”
Pre-registration roller paper sensor (Q751)	4	Is the pre-registration roller paper sensor (Q751) normal? (For instructions on how to check the photointerrupers, see p. 11-47.)	NO	Check the wiring from J108 on the DC controller PCB to Q751; if normal, replace Q751.
Scanner/lens drive motor (M2)	5	Replace the scanner/lens drive motor (M2). Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

20 The registration roller fails to rotate.

Cause	Step	Checks	Yes/No	Action
Main motor (M1)	1	Does the main motor (M1) start to rotate when the Copy Start key is pressed?	No	See “The main motor fails to rotate.”
Pre-registration roller paper sensor (Q751)	2	Is the pre-registration roller paper sensor (Q751) normal? (For instructions on how to check the photointerrupers, see p. 11-47.)	No	Check the wiring from J108 on the DC controller PCB to Q751; if normal, replace Q751.
Registration roller spring clutch	3	Does the registration clutch solenoid (SL2) turn on for a moment after the Copy Start key is pressed?	No	Check the position of the solenoid; if normal, check or replace the control ring.
Registration clutch solenoid (SL2)	4	Set the meter range to 30 VDC. Does the voltage between J109-6 (+) and -5 (-) on the DC controller PCB change to about 24 V for a moment after the Copy Start key is pressed?	Yes	Check the wiring from J109 on the DC controller PCB to SL2; if normal, replace SL2.
DC controller PCB			No	Replace the DC controller PCB.

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21 The blanking lamp fails to turn on.

Cause	Step	Checks	YES/NO	Action
Side blanking PCB	1	Remove J106 from the DC control PCB, and set the meter range to 1 kΩ; then, connect the meter probes to J106-1 and -2 on the harness side. Is the meter reading about 20 Ω?	NO	Check the harness; if normal, replace the side blanking PCB.
DC controller PCB			YES	Replace the DC controller PCB.

22 The scanning lamp fails to turn on.

Cause	Step	Checks	YES/NO	Action
Scanning lamp	1	Turn off the power switch, and disconnect the power plug from the power outlet.Is the scanning lamp (LA1) mounted correctly?	NO	Mount the scanning lamp correctly.
Fuse (FU1)	2	Set the meter range to 1 kΩ, and connect the meter probes to both terminals of the fuse (FU1). Does the index of the meter swing?	NO	Replace the fuse (FU1).
Lamp	3	Disconnect the connector J910 from th ecomposite power supply PCB, and set the tester range to 1kΩ. Does the tester index swing when the probes are connected to J910-1 and J910-3 on the lamp side?	NO	Check the cable from the composite power supply PCB to the lamp; if normal, replace the lamp.
DC controller PCB	4	Replace the DC controller PCB. Is the problem corrected?	YES	End.
Composite power supply PCB			NO	Check the wiring between the DC controller PCB and the composite power supply PCB; if normal, replace the composite power supply PCB.

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23 The lens fails to turn on.

Cause	Step	Checks	YES/NO	Action
Lens solenoid (SL3)	1	Does the lens solenoid (SL3) turn on when the power switch is turned on?	NO	Check the wiring from J109 on the DC controller PCB to SL3; if normal, replace SL3.
Lens cable, Pulley, Rail	2	Are the lens cable, pulley, and rail normal?	NO	Check the lens cable, pulley, and rail; as necessary, clean the cable and adjust its tension.
DC power supply	3	Set the meter range to the 30 VDC, and connect J202-2 (+) and -1 (-) on the composite power supply PCB. Is the meter reading about 24 V?	NO	See “DC power fails to turn on.”
Scanner/lens drive motor (M2)	4	Replace the scanner/lens drive motor (M2). Is the problem corrected?	YES	End.
DC control PCB			NO	Replace the DC controller PCB.

24 The fixing heater fails to turn on.

Cause	Step	Checks	YES/NO	Action
----------	1	Is 'E0' indicated?	YES	See the descriptions under “E0.”
DC controller PCB	2	Replace the DC controller PCB. Is the problem corrected?	YES	End.
Composite power supply PCB			NO	Replace the composite power supply PCB.

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25 The "Add Paper" message fails to turn off.

Cause	Step	Checks	YES/NO	Action
Cassette	1	Is the cassette set correctly?	NO	Set the cassette correctly.
Lens cable, Pulley, Rail	2	Are the lens cable, pulley, and rail normal?	NO	Check the lens cable, pulley, and rail; as necessary, clean the cable and adjust its tension.
DC power supply	3	Set the meter range to 30 VDC, and connect the meter probes to J202-2 (+) and -1 (-) on the composite power PCB. Is the meter reading about 24 V?	NO	See “The DC power fails to turn on.”
Vertical path roller paper sensor (PS4)	4	Is the vertical path roller paper sensor (PS4) normal? (For instructions on how to check the photointerrupters, see p. 11-47.)	NO	Check the wiring from J132 on the DC controller PCB to PS4; if normal, replace the PS4.
Control panel PCB	5	Replace the control panel PCB. Is the problem corrected?	YES	End.
DC controller PCB			NO	Replace the DC controller PCB.

26 The "Jam" message fails to turn off.

Cause	Step	Checks	YES/NO	Action
Jam paper	1	Is the jam paper near any of the following sensors? • Vertical path roller paper sensor (PS4) • Single-feeder paper sensor (PS5) • Pre-registration roller paper sensor (Q751) • Delivery sensor (PS3)	YES	Remove the jam paper.
Sensor	2	Is the sensor checked in step 1 normal? (For instructions on how to check the photointerrupers, see p. 11-47.)	NO	Check the wiring from the DC controller PCB to each sensor; if normal, replace the sensor in question.
DC controller PCB			YES	Replace the DC controller PCB.

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V. TROUBLESHOOTING FEEDING PROBLEMS

A. Copy Paper Jam

Inside the machine, jams tend occur in the following blocks:

[1] Pickup block
[2] Separation/feeding block
[3] Fixing/delivery block

The troubleshooting procedures that follow are organized according to the location of a jam.

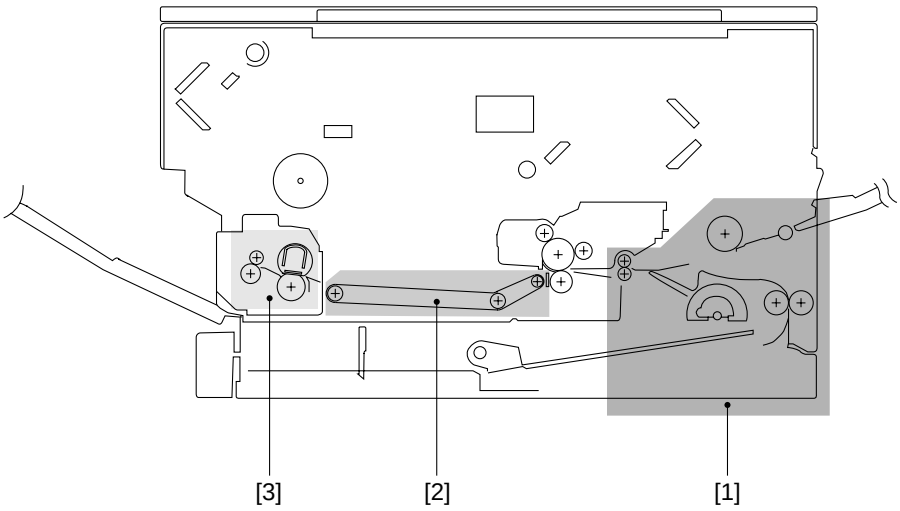

Figure 11-501

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1 Pickup Assembly

Cause	Step	Checks	YES/NO	Action
----------	1	Does the problem occur when the cassette is selected as the source of paper?	NO	Go to step 5.
Cassette	2	Is the cassette set correctly?	NO	Set the cassette correctly.
Copy paper	3	Is the copy paper curled or wavy?	YES	Replace the copy paper. Instruct the user on the correct method of storing paper.
Copy paper	4	Try paper recommended by Canon. Is the problem corrected?	YES	Ask the user to use recommended paper.
DC controller PCB, Pickup clutch	5	Does the pickup roller of the pickup assembly of the selected source (cassette, manual feeder) rotate during a copying run?	NO	See “Pickup fails” for the source of paper in question.
Registration roller drive assembly	6	Does the registration roller operate normally?	NO	See “The registration roller fails to rotate.”
Vertical path roller paper sensor (PS4)	7	Does the vertical path roller paper sensor operate normally?	NO	Replace the sensor or the lever.
Pickup roller, Vertical path roller, Roll			YES	Check the roller for wear and deformation, and the roll for attachment.

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2 Separation/Feeding Assembly

Cause	Step	Checks	YES/NO	Action
Copy paper	1	Try paper recommended by Canon. Is the problem corrected?	YES	Ask the user to use recommended paper.
	2	Is the copy paper curled, wavy, or otherwise deformed?	YES	Replace the paper.
Feeding assembly	3	Is there foreign matter in the feeding assembly?	YES	Instruct the user on the correct method of storing paper.
Feed belt, Roller	4	Is the feed belt rotating properly?	NO	Remove the foreign matter.
Static eliminator	5	Is the static eliminator soiled with toner or the like?	YES	Check the belt and the roller.
Pre-registration roller paper sensor (Q751)	6	Does the pre-registration roller paper sensor operate normally?	NO	Replace the sensor or the lever.
Registration roller	7	Is the registration roller worn, deformed, or soiled?	YES	Clean the static eliminator. If dirt is found, clean with alcohol; if wear or deformation is found, replace it.
Registration-related spring, Spring clutch of registration assembly			NO	1. Check the spring used to control registration. 2. Check the spring clutch of the registration assembly.

3 Fixing/Delivery Assembly

Cause	Step	Checks	YES/NO	Action
Inlet guide	1	Is the fixing inlet guide soiled with toner?	YES	Clean the guide with solvent.
Fixing lower roller, Fixing film	2	Is the fixing lower roller or the fixing film deformed or scratched?	YES	Replace the roller or the fixing assembly upper unit.
Delivery paper detecting lever	3	Does the delivery detecting lever move smoothly?	NO	Make adjustments so that it moves smoothly.
Delivery sensor (PS3)	4	Does the delivery sensor operate normally?	NO	Replace the sensor.
Delivery roller drive assembly	5	Does the delivery roller operate smoothly?	NO	Check the delivery roller drive assembly.
Leading edge margin			YES	Check the leading edge of copy paper for margin.

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B. Faulty Feeding

1 Double-Feeding

Cause	Step	Checks	YES/NO	Action
Cassette	1	Is the copy paper placed under the claw properly?	NO	Place the copy paper properly.
	2	Push down the copy paper inside the cassette. Does it move up when let go with its end coming under the claw?	NO	1. Check the copy paper width. 2. Check the position of the side guide plate of the cassette. (universal cassette only) 3. Measure the force of the spring of the cassette; if faulty, replace the cassette spring.
	3	Is the sheets of paper placed in the cassette uneven?	YES	Even out the sheets in the cassette.
Copy paper	4	Is the paper of a type recommended by Canon?	NO	Ask the user to use recommended paper.
Claw (cassette)			YES	Check the claw for deformation.

2 Wrinkles

Cause	Step	Checks	YES/NO	Action
Pickup assembly, Vertical path roller, Registration roller	1	Turn off the power while copy paper is moving through the feeding assembly. Is the copy paper wrinkled or found askew?	YES	• Check the pickup assembly. • Check the vertical path roller. • Check the registration roller.
Copy paper	2	Try fresh paper. Is the problem corrected?	YES	The paper is moist. Instruct the user on the correct method of storing paper.
	3	Try paper of a type recommended by Canon. Is the problem corrected?	YES	Ask the user to use recommended paper.
Fixing assembly	4	Is the inlet guide soiled with toner?	NO	Check the fixing assembly.
Inlet guide			YES	Clean the inlet guide with solvent.

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VI. ARRANGEMENT AND FUNCTIONS OF ELECTRICAL PARTS

A. Sensors and Solenoids

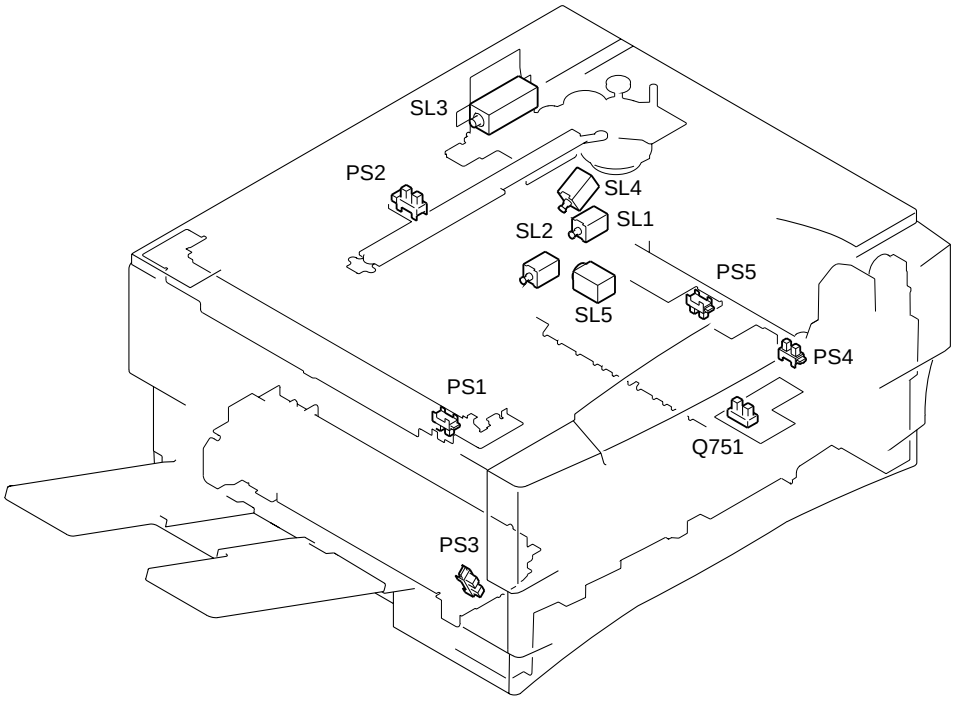

Figure 11-601

Symbol	Name	Notation	Description	Remarks
PS	Photointerrupters	PS1	Scanner home position detection	
		PS2	Lens home position detection	
		PS3	Delivery assembly paper detection	
		PS4	Vertical path assembly paper detection	
		PS5	Single-feeder paper detection	Single-feeder type only
		Q751	Pre-registration roller paper detection	
SL	Solenoid	SL1	Pickup clutch solenoid	
		SL2	Registration clutch solenoid	
		SL3	Lens solenoid	
		SL4	Multifeeder pickup solenoid	Multifeeder type only
		SL5	Cassette pickup solenoid	

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B. Switches

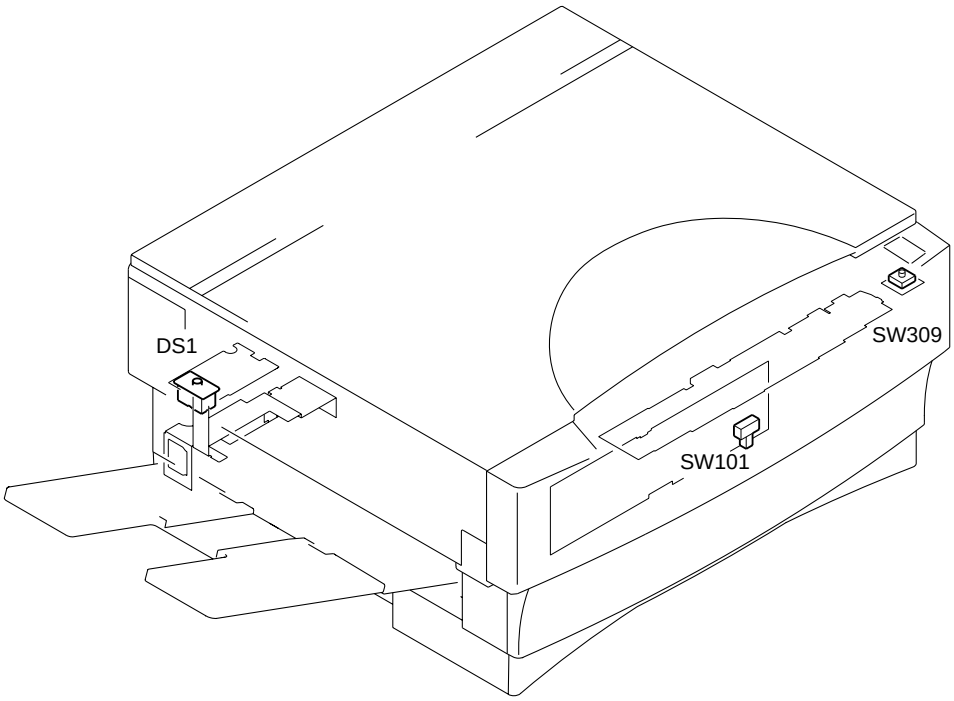
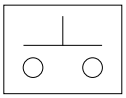
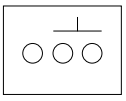


Figure 11-602

Symbol	Name	Notation	Description	Remarks
	Switch	DS1 SW309	Door switch Power switch	
	Switch	SW101	Density correction switch	

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C. Lamp, Heater, Motor, Etc.

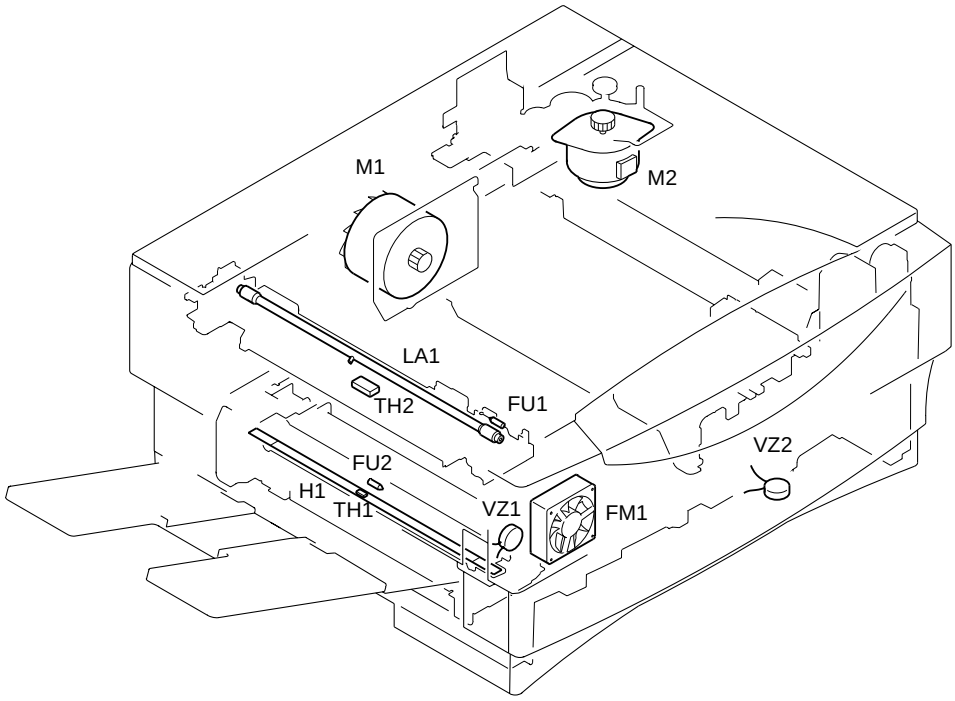

Figure 11-603

Symbol	Name	Notation	Description	Remarks
	Lamp	LA1	Scanning lamp	
	Heater	H1	Fixing heater	
M	Motor	M1 M2	Main motor Scanner/lens drive motor	
	Fan motor	FM1	Scanner cooling fan	
	Thermistor	TH1 TH2	Fixing heater temperature detection Scanner temperature detection	
	Thermal fuse	FU1 FU2	Lamp overheating detection Fixing heater overheating detection	
	Varistor	VZ1 VZ2	Fixing film varistor Transfer guide varistor	

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D. PCBs

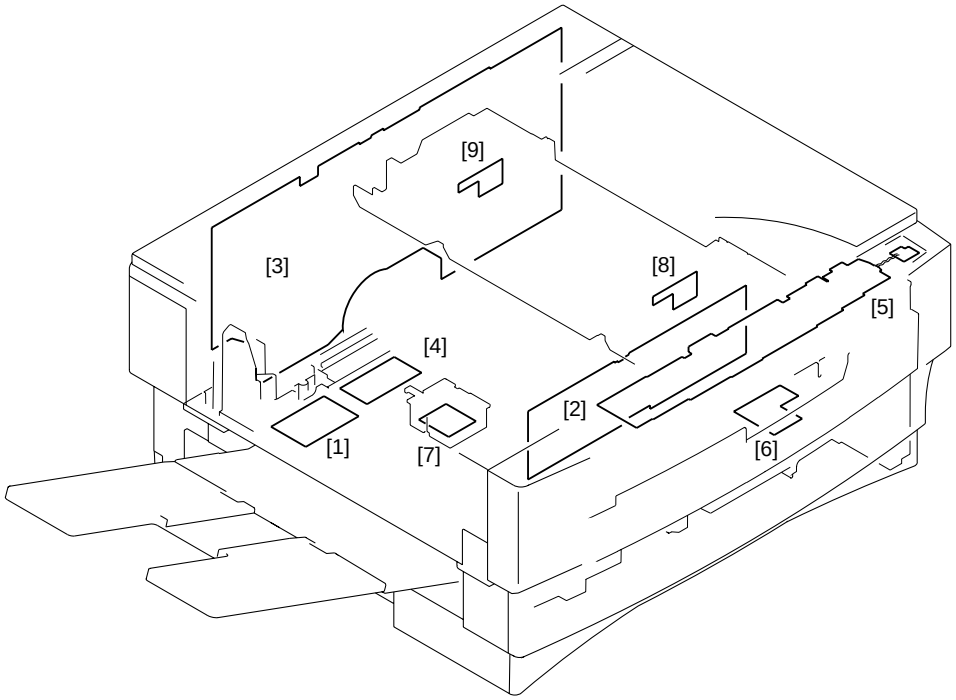

Figure 11-604

Ref.	Name	Description
[1]	Noise filter PCB	Removes noise from the power supply.
[2]	DC controller PCB	Controls sequence of operations.
[3]	Composite power supply PCB	Supplies DC power, generates high voltage, and controls the scanning lamp.
[4]	High-voltage contact PCB	Makes an electrical connection between the machine top and bottom.
[5]	Control panel PCB	Provides copying insurrections/indications.
[6]	Sensor PCB	Detects paper in front of the registration roller.
[7]	AE sensor PCB	Detects the density of originals.
[8]	Blanking PCB (front)	Used for blanking exposure.
[9]	Blanking PCB (rear)	Used for blanking exposure.

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E. ADF

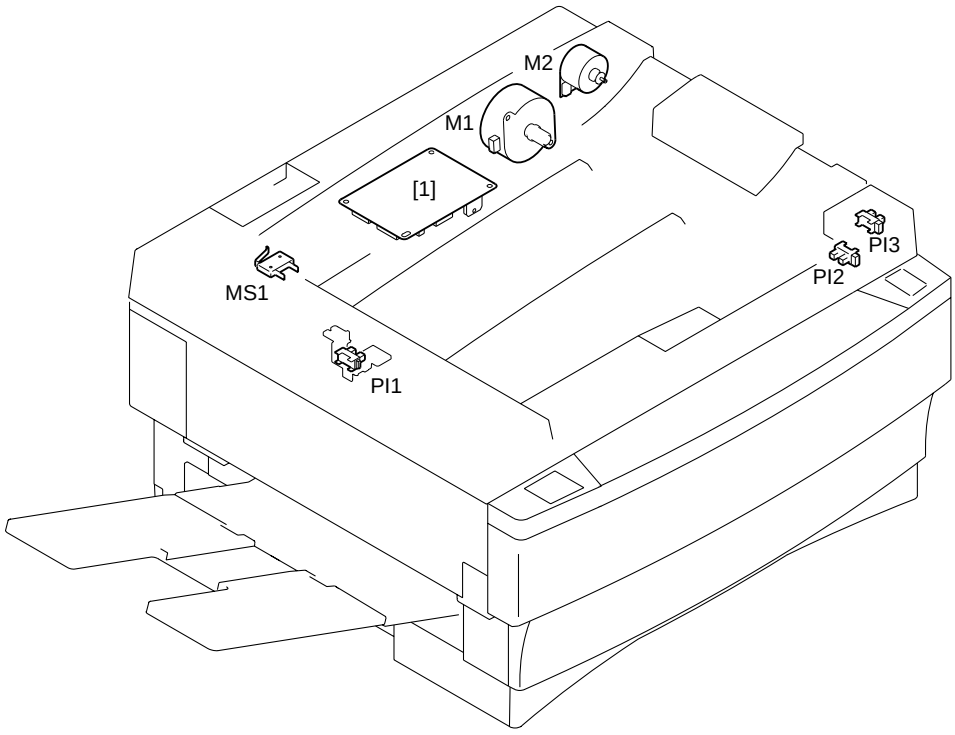

Figure 11-605

Symbol	Name	Notation	Description	Remarks
PS	Photointerrupter	PI1 PI2 PI3	Delivery paper detection Registration roller paper detection Original placement detection	
	Microswitch	MS1	ADF open/close switch	
M	Motor	M1 M2	Belt motor Pickup motor	
[1]	ADF controller PCB		Controls sequence of operations	

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F. Variable Resistors (VR) and Check Pins by PCB

Of the variable resistors (VR) and check pins, those needed in the field are discussed herein. Those not found in the discussions are for the factory only, requiring special tools and adjustment to an extremely accuracy. Do not touch them in the field.

Caution:
VRs that may be used in the field .....
VRs that must not be used in the field .....

1. DC Controller PCB

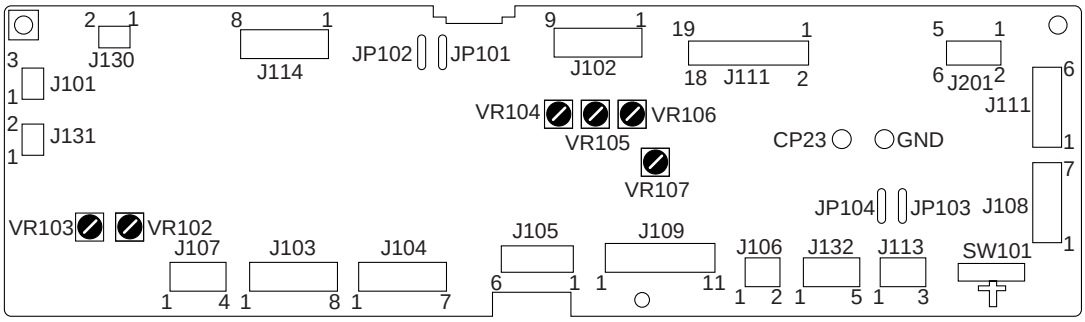

Figure 11-606

2. Composite Power Supply PCB

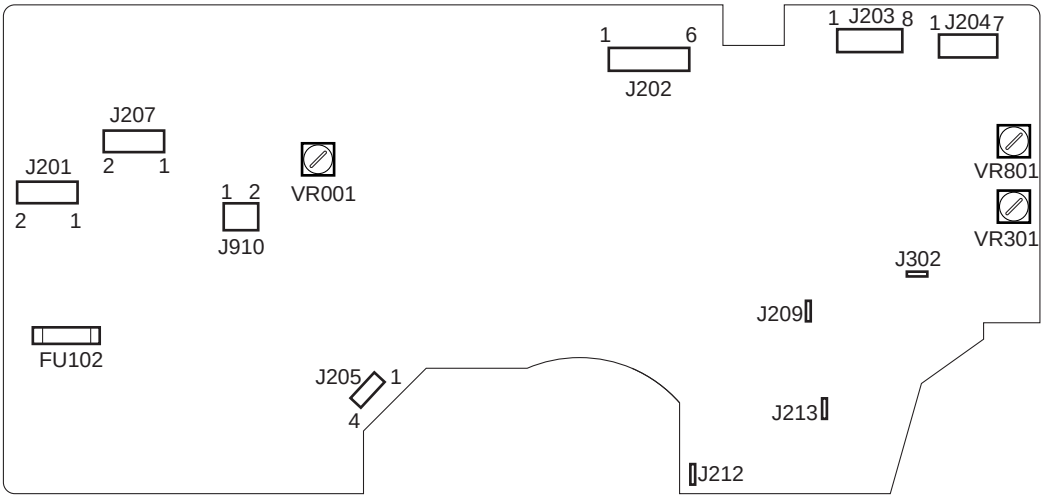

Figure 11-607

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3. ADF Controller PCB

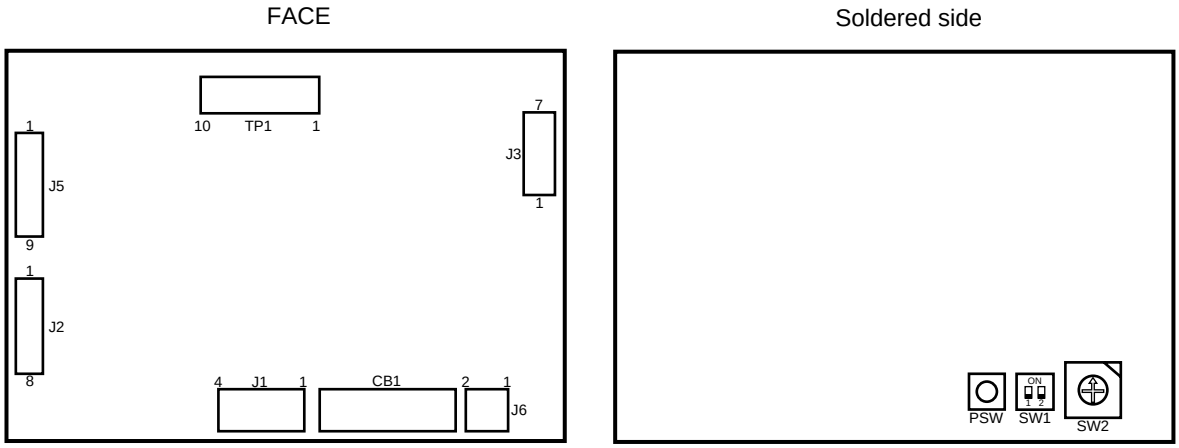

Figure 11-608

VII. SELF DIAGNOSIS

The microprocessor on the machine's DC controller PCB is equipped with a self diagnostic mechanism that checks the condition of the machine (particularly, sensors) and indicates an error code in the count/ratio indicator on the control panel upon detection of a fault.

In the case of 'E001', 'E0' and '01' are flashed alternately.

Code	Cause	Description
E0	'E000', 'E001', 'E002', or 'E003' has occurred.	The power switch is turned off and then on immediately after an error ('E000', 'E001', 'E002', 'E003') has occurred.
E000	• The thermistor (TH1) is faulty. • The fixing heater (H1) is faulty. • The thermal fuse (FU2) has blown. • The DC controller PCB is faulty. • The composite power supply PCB is faulty.	• The temperature detected by the thermistor (TH1) does not reach 65°C 1.5 sec after the Copy Start key has been pressed. • The temperature detected by the thermistor (TH1) does not reach 150°C 4 sec after the Copy Start key has been pressed.
E001	• The thermistor (TH1) is faulty. • The DC controller PCB is faulty. • The composite power supply PCB is faulty.	• The temperature detected by the thermistor (TH1) exceeds 230°C. • The temperature detected by the thermistor (TH1) exceeds by 30°C or more. • The temperature detected by the thermistor (TH1) registers an increase of 100°C or more within 1 sec. • The temperature detected by the thermistor (TH1) registers an increase of 40°C or more after it has reached 100°C during standby. • E0 detection signal (E0_DT) is detected twice or more in succession.
E002	• The thermistor (TH1) is faulty. • The fixing heater (H1) is faulty. • The thermal fuse (FU2) has blown. • The DC controller PCB is faulty. • The composite power supply PCB is faulty.	• The temperature detected by the thermistor (TH1) has exeeded 150°C during copy operation and maximum power is applied for 10 to 14 sec thereafter.
E003	• The thermistor (TH1) is faulty. • The fixing heater (H1) is faulty. • The thermal fuse (FU2) has blown. • The DC controller PCB is faulty. • The composite power supply PCB is faulty.	• The temperature detected by the thermistor (TH1) drops to and remains 150°C or lower after it has reached 160°C.

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Code	Cause	Description
E010	• The main motor (M1) is fault. • The DC controller PCB is faulty.	• The rotation of the main motor deviates (indicated by MLOCK=0) for 1 sec or more while the main motor drive signal (MMD=1) is being generated.
E064	• The composite power supply PCB is faulty. • The DC controller PCB is faulty.	• The actual output value of the composite power supply high voltage is different from the setting value twice in succession.
(E202) The keys on the control panel are locked without error code indication.	• The scanner home position sensor (PS1) is faulty. • The scanner/lens drive motor (M2) is faulty. • The DC controller PCB is faulty.	• The scanner home position is not detected within 10 sec after the scanner has turned on. • The scanner does not leave the home position after it has turned on.
E210	• The lens home position sensor (PS2) is faulty. • The scanner/lens drive motor (M2) is faulty. • The lens cable is faulty. • The DC controller PCB is faulty.	• The lens hoe position is not detected after the lens has moved the maximum travel distance. • The lens does not leave the home position after it has turned on.
E220	• The scanning lamp (LA1) is faulty. • The DC controller PCB is faulty. • The composite power supply PCB is faulty.	• The lamp ON detection signal is not detected for 1 sec or more in the presence of the scanning lamp On signal. • The lamp ON detection signal is detected for 1 sec or more in the absence of the scanning lamp ON signal.
E240	• The DC controller PCB is faulty. • The composite power supply PCB is faulty.	• A fault in the communication between DC controller PCB and composite power supply PCB is detected.
E261	• The frequency of the power supply is faulty. • The composite power supply PCB is faulty.	• The interval between zero-cross signals is in excess of the allowed interval.
E400	• Data communication between the copier and the ADF (faulty).	• The communication with the copier is interrupted for 5 sec or more; the communication is monitored at all times.
E803	• The DC controller PCB is faulty. • The composite power supply PCB is faulty.	• During a copying run, the +24 V power deviates from the control value by ±20%.

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Caution:

1. If the self-diagnosis has turned on, turn off the power switch to reset the machine. In the case of 'E000', 'E001', 'E002', or 'E003', however, the machine must be reset as follows: this consideration is to prevent feeding power to the fixing heater otherwise occurring if the thermistor has an open circuit:
2. In the case of 'E0', 'E000', 'E001', 'E002', 'E003', or 'E220', the machine will turn off in 1.5 sec for 'E0' and 'E000' through 'E003' and in 2 sec for 'E220'.
3. In the case of 'E0', 'E000', 'E001', 'E002', or 'E003', perform the following steps:
   1) Turn off the power switch, and short circuit JP101 and JP102 on the DC controller PCB with a screwdriver or the like.

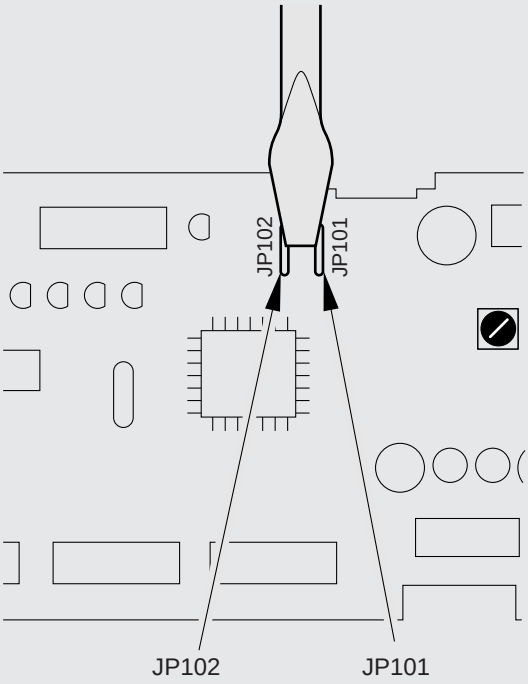

Figure 11-701

   2) While keeping the condition in step 1), turn on the power switch.
   3) Stop short-circuiting JP101 and JP102.

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APPENDIX

A. GENERAL TIMING CHART A-1
B. SIGNALS AND ABBREVIATIONS A-3
C. GENERAL CIRCUIT DIAGRAM A-5
D. DC CONTROLLER CIRCUIT DIAGRAM A-7
E. ADF CONTROLLER CIRCUIT DIAGRAM A-15
F. COMPOSITE POWER SUPPLY CIRCUIT DIAGRAM A-19
G. CONTROL PANEL CIRCUIT DIAGRAM A-27
H. AE SENSOR CIRCUIT DIAGRAM A-29
I. SENSOR CIRCUIT DIAGRAM A-30
J. NOISE FILTER CIRCUIT DIAGRAM A-31
K. HIGH VOLTAGE CONTACT CIRCUIT DIAGRAM A-32
L. BLANK EXPOSURE (front) CIRCUIT DIAGRAM A-33
M. BLANK EXPOSURE (rear) CIRCUIT DIAGRAM A-34
N. SPECIAL TOOLS A-35
O. SOLVENTS/OILS A-36

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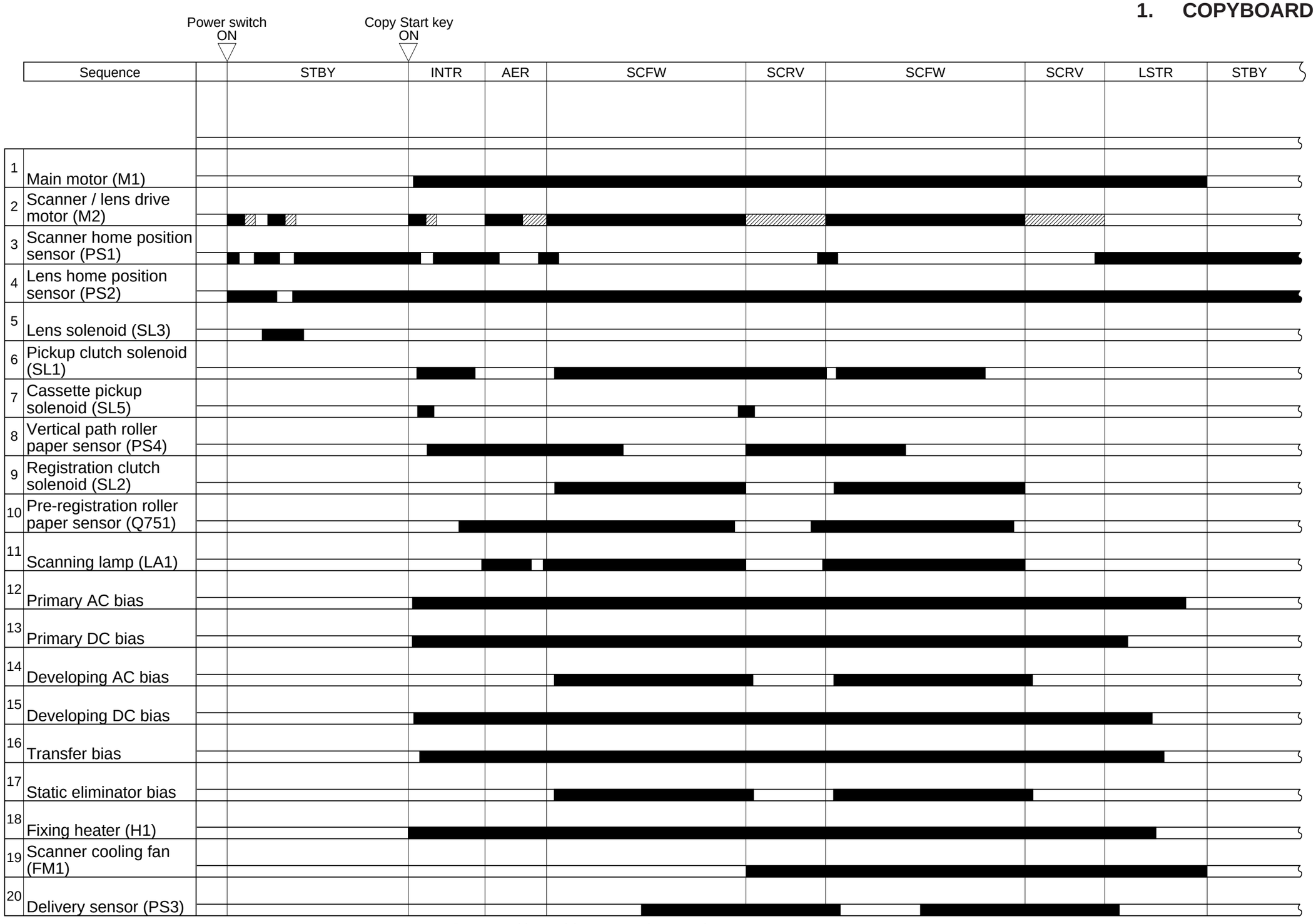
(A4, 2 copies, DIRECT, from cassette)

A. GENERAL TIMING CHART

1. COPYBOARD TYPE



: Scanner / lens drive motor (reverse)

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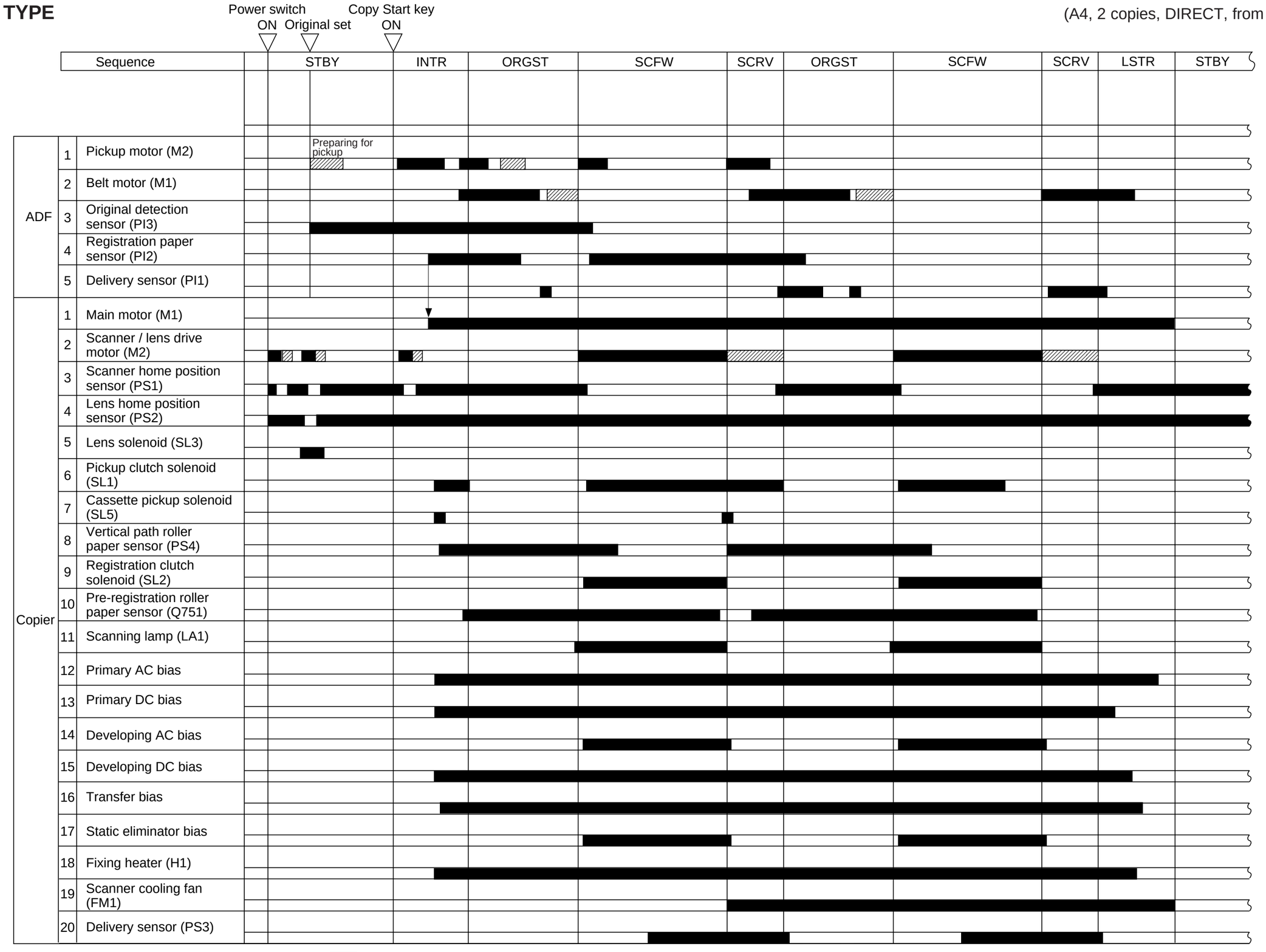
2. ADF TYPE

(A4, 2 copies, DIRECT, from cassette)



: Scanner / lens drive motor (reverse) / Pickup motor (reverse) / Belt motor (reverse)

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B. SIGNALS AND ABBREVIATIONS

What follows below is a list of signals and abbreviations used in the chapters of the manual and circuit diagrams.
The abbreviations within parentheses represent analog signals, which cannot be expressed in terms of ‘1’ or ‘0’.

1. Signals

ACBIAS	AC BIAS OSCILLATION signal
[AE]	AE SENSOR OUTPUT signal
AEREF	AE SENSOR REFERENCE signal
BIAS_PWM	DC BIAS CONTROL signal
BIAS_S	DC BIAS MONITOR signal
CLK32K	TRANSFORMER CONTROL signal
CPUSD	CASSETTE PICKUP SOLENOID DRIVE signal
DPD	DELIVERY PAPER DETECTION signal
DV_AC_ON	DEVELOPING AC BIAS ON signal
DV_DC_ON	DEVELOPING DC BIAS ON signal
E0_DT	E0 DETECTION signal
FM1D	SCANNER COOLING FAN DRIVE signal
HEAT_ERR	FIXING HEATER ERROR signal
HEAT_OFF	FIXING HEATER OFF signal
HEAT_PWM	FIXING HEATER DUTY signal
HEAT_TRG	FIXING HEATER DRIVE signal
LAMP_DETECT	LAMP ACTIVATION DETECTION signal
LAMP_ON	SCANNING LAMP ACTIVATION signal
LHP	LENS HOME POSITION signal
LNSLD	LENS SOLENOID DRIVE signal
MFSLD	MULTIFEEDER PICKUP SOLENOID DRIVE signal
MLOCK	MAIN MOTOR CONSTANT SPEED signal
MMCLK	MAIN MOTOR CLOCK PULSE signal
MMD	MAIN MOTOR DRIVE signal
PAC_OUT	PRIMARY CORONA AC BIAS signal
PAC_S	PRIMARY CORONA AC DETECTION signal
PDC_PWM	DC BIAS CONTROL signal
PDC_S	DC VOLTAGE MONITOR signal
PDP	VERTICAL PATH ROLLER PAPER DETECTION signal
PR_DC_ON	PRIMARY CHARGING DC BIAS ON signal
PUSLD	PICKUP CLUTCH SOLENOID DRIVE signal
PWM_1KHz	SCANNING LAMP INTENSITY ADJUSTMENT signal
PWOFF	POWER SWITCH OFF signal
RGSLD	REGISTRATION CLUTCH SOLENOID DRIVE signal
RLOFF	RELAY DRIVE signal
RPD	PRE-REGISTRATION ROLLER PAPER DETECTION signal
SB_LP	SIDE BLANK EXPOSURE LAMP ON signal
SC_A	SCANNER MOTOR PULSE signal A
SC_B	SCANNER MOTOR PULSE signal B
SC_COM	SCANNER MOTOR DRIVE signal
SCHP	SCANNER HOME POSITION signal
SFPD	SINGLE-FEEDER PAPER DETECTION signal
T_FEEDBACK	TRANSFER BIAS VOLTAGE DETECTION signal
T_FW_DRV	TRANSFER DC BIAS CONTROL signal
T_FW_ON	TRANSFER DC BIAS ON signal
T_FW_S	TRANSFER CURRENT DETECTION signal
T_REV_ON	TRANSFER POSITIVE DC BIAS ON signal
TH1	FIXING THERMISTOR signal
TH2	SCANNER THERMISTOR signal

2. Abbreviations

AER	AE (MEASUREMENT) ROTATION
INTR	INITIAL ROTATION
LSTR	LAST ROTATION
SCFW	SCANNER FORWARD
SCRV	SCANNER REVERSE
STBY	STANDBY

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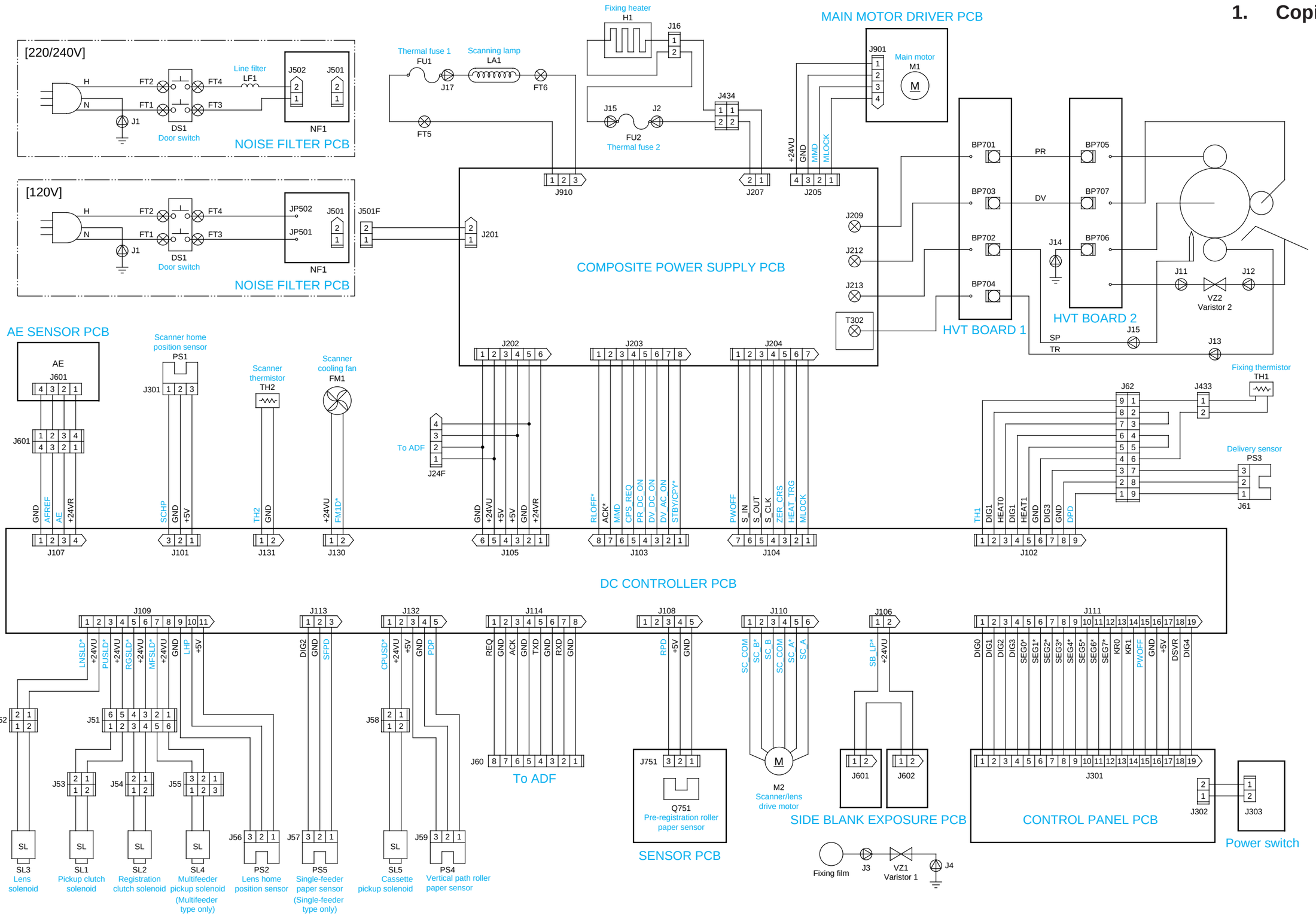
C. GENERAL CIRCUIT DIAGRAM

1. Copier



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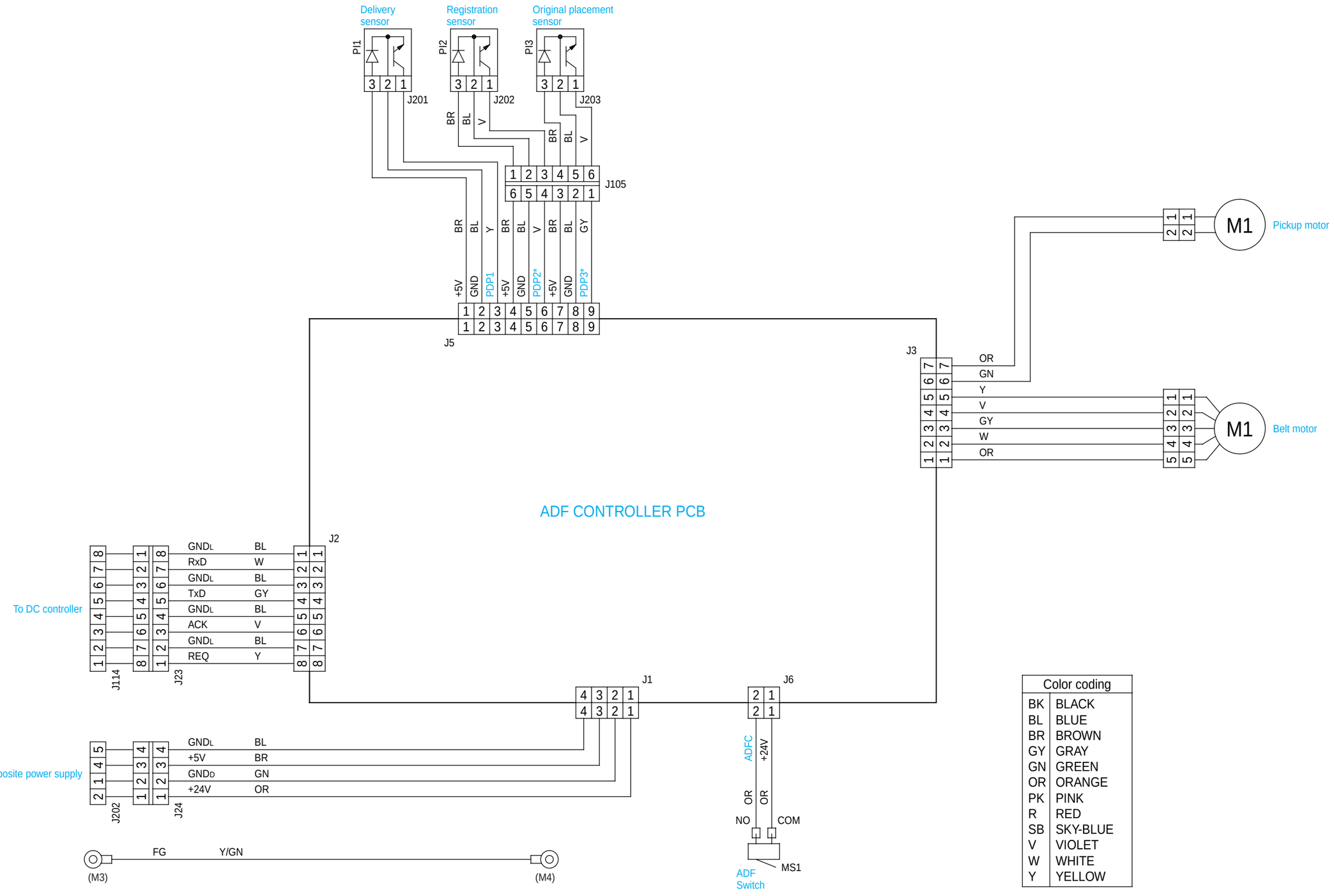
2. ADF



Color coding	
BK	BLACK
BL	BLUE
BR	BROWN
GY	GRAY
GN	GREEN
OR	ORANGE
PK	PINK
R	RED
SB	SKY-BLUE
V	VIOLET
W	WHITE
Y	YELLOW

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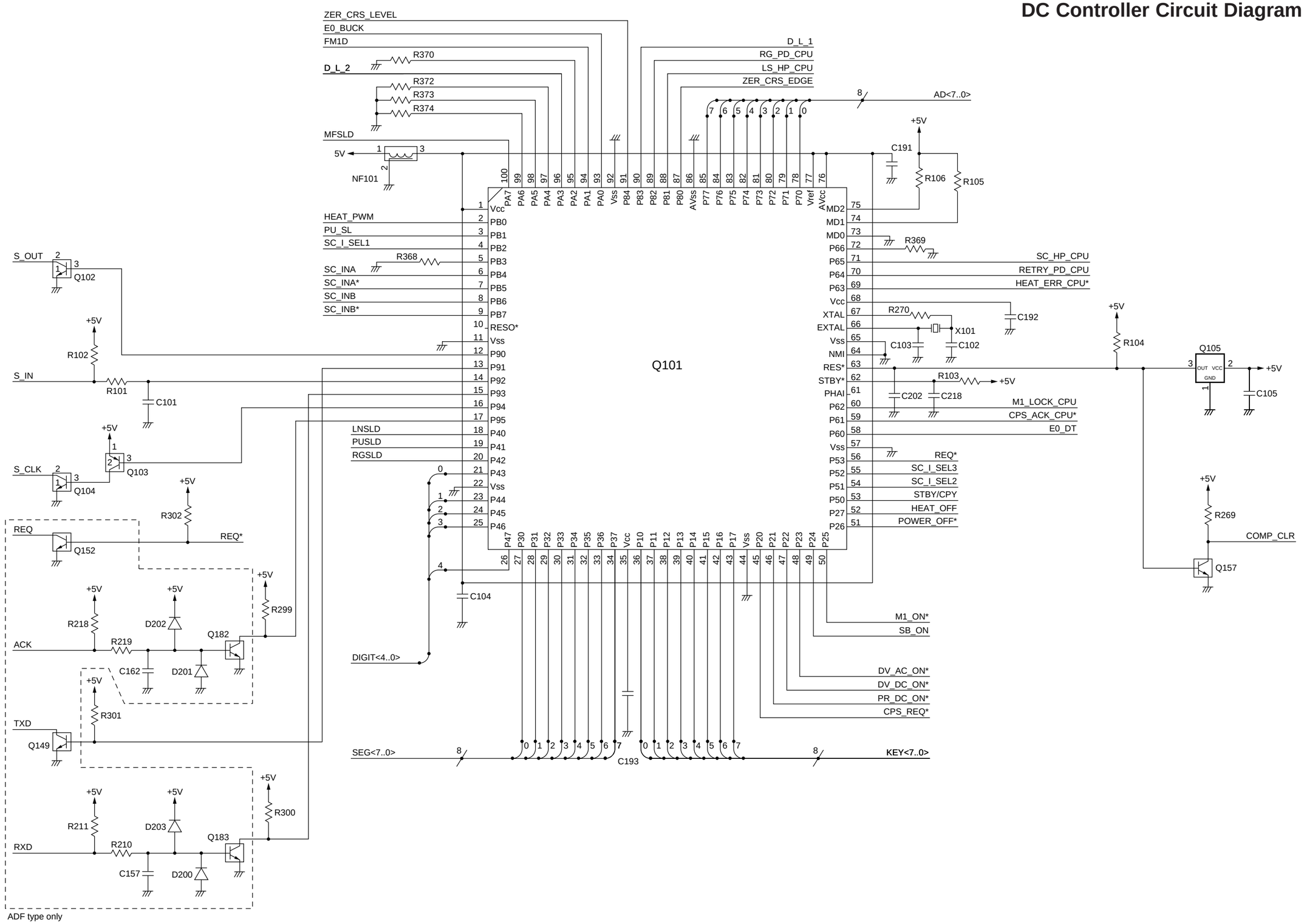
DC Controller Circuit Diagram (1/8)



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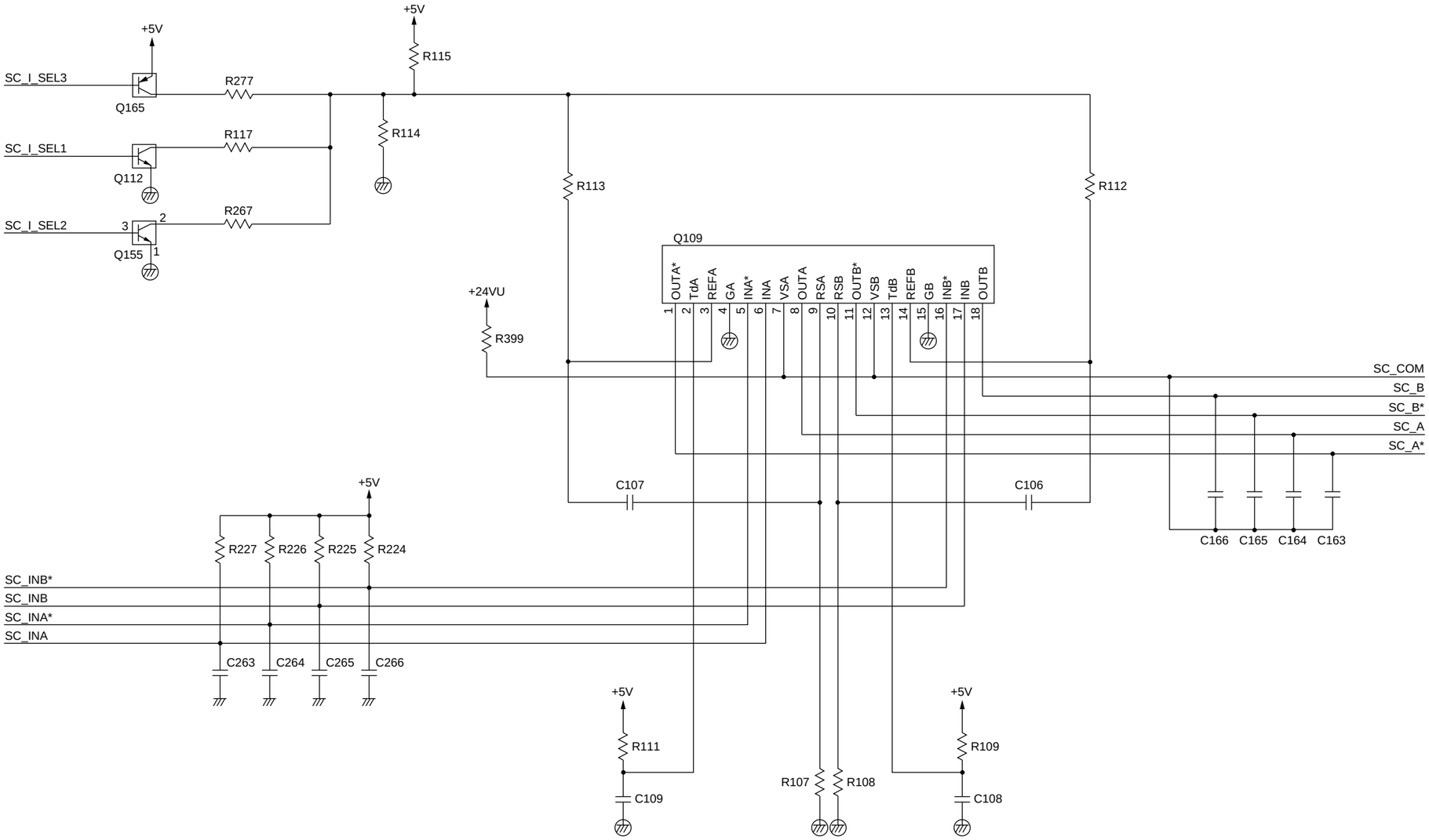
DC Controller Circuit DIagram (2/8)



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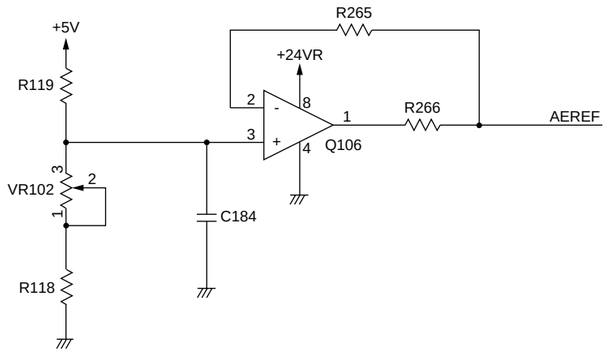

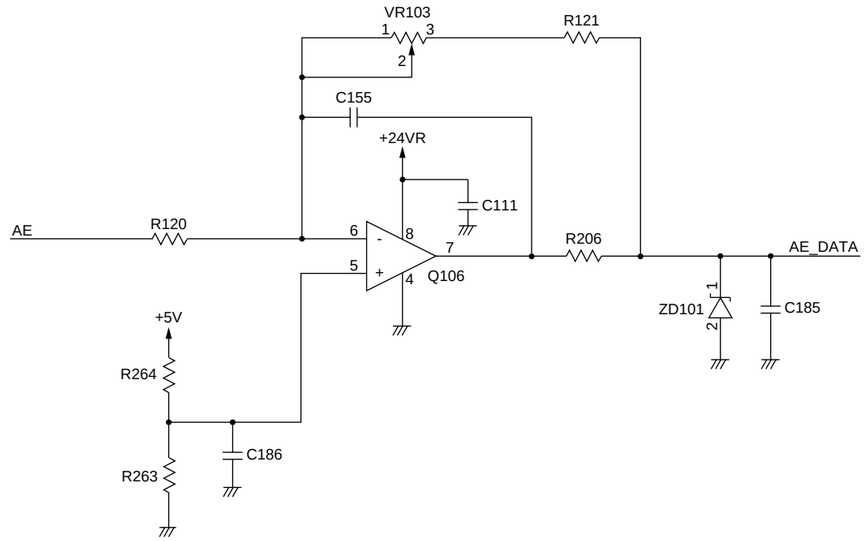

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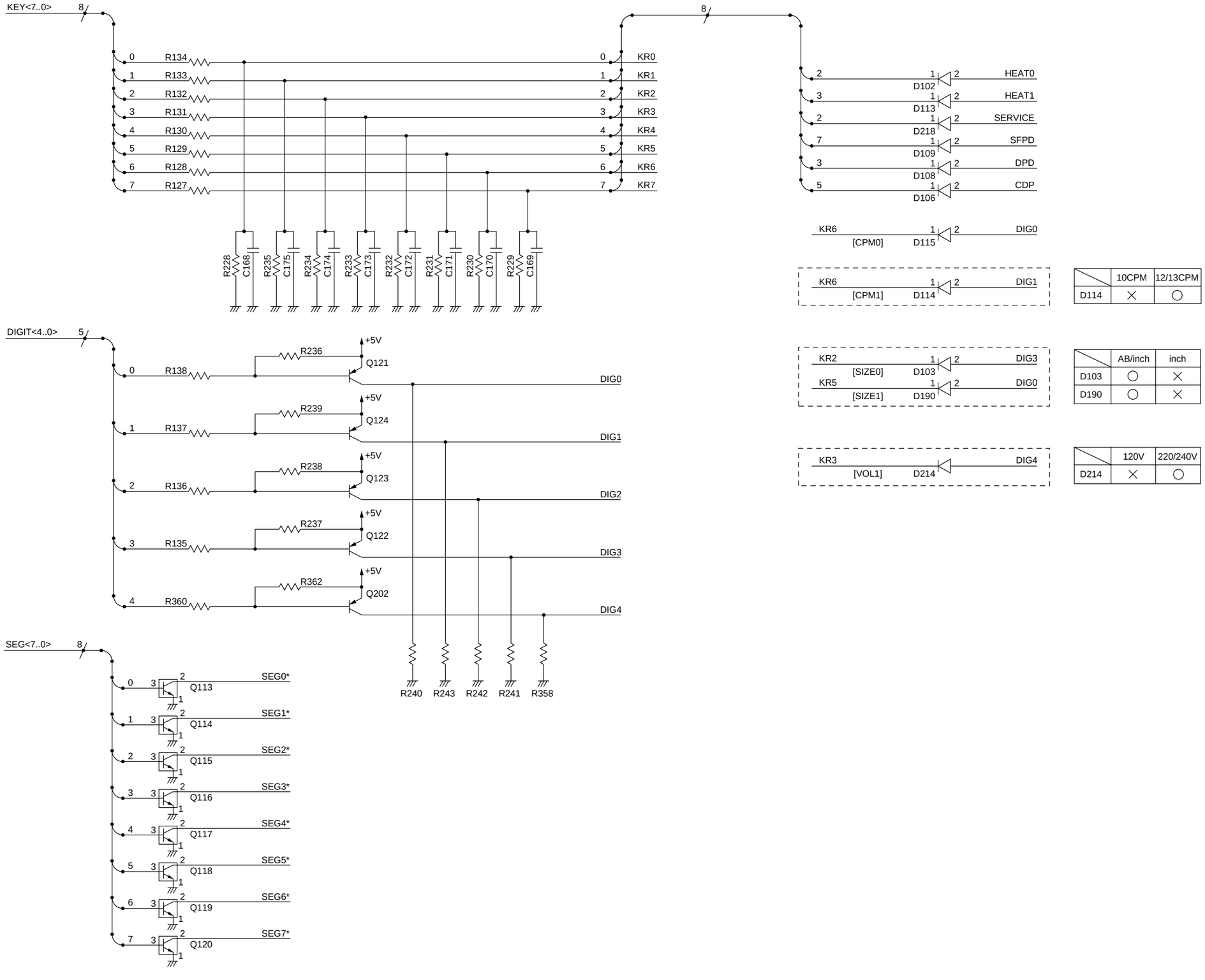
DC Controller Circuit Diagram (4/8)



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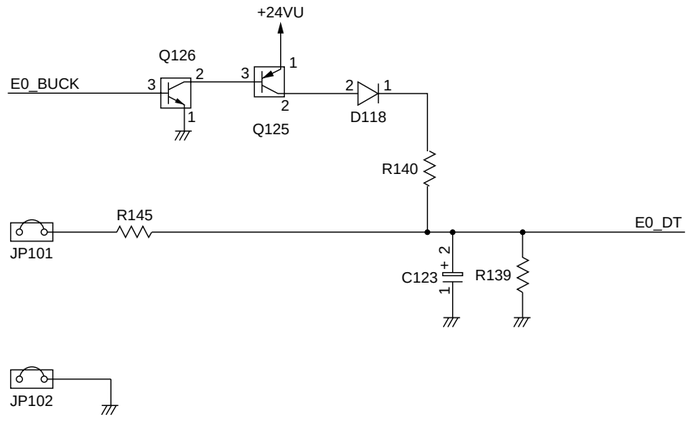
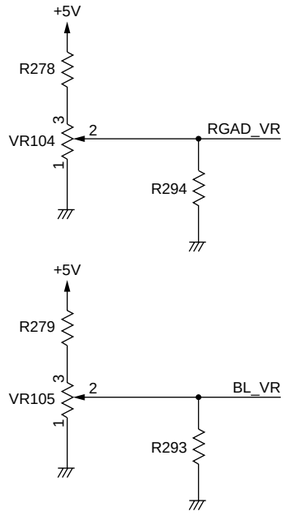
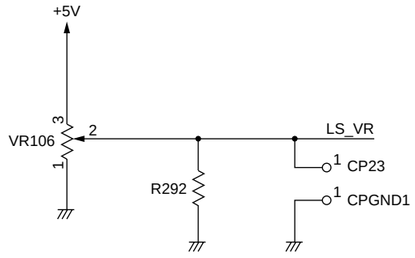
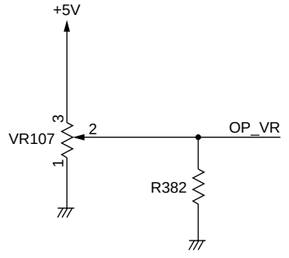
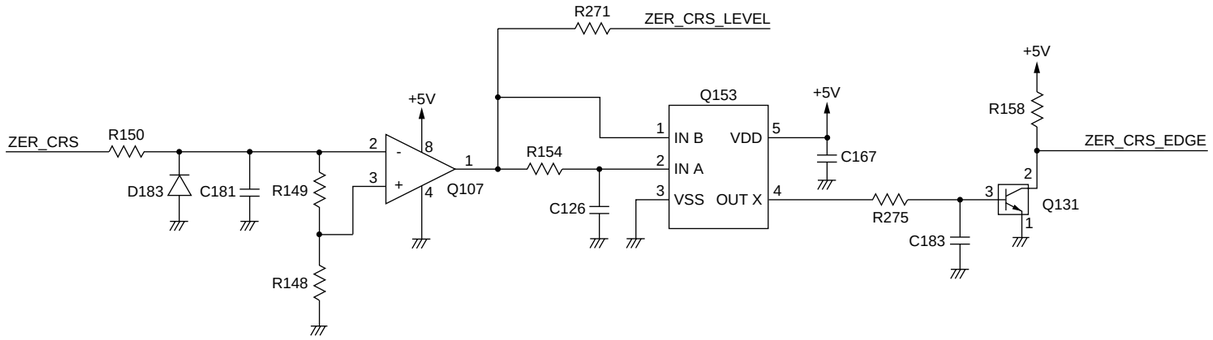
DC Controller Circuit Diagram (5/8)

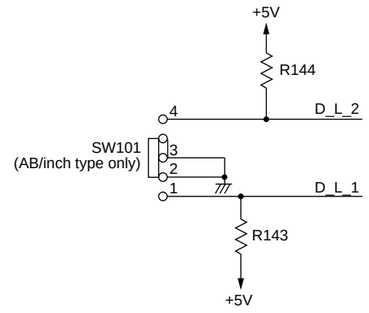












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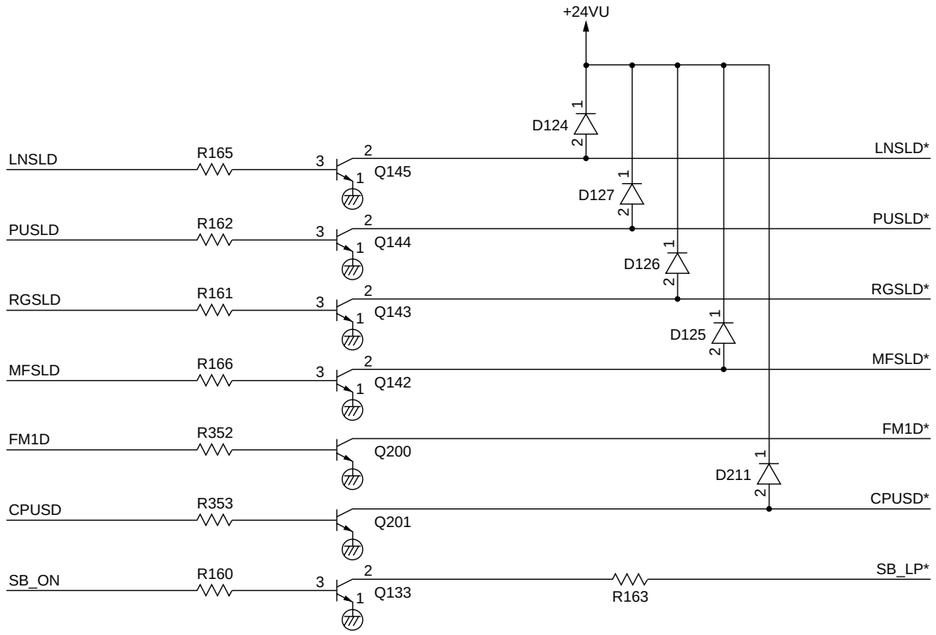
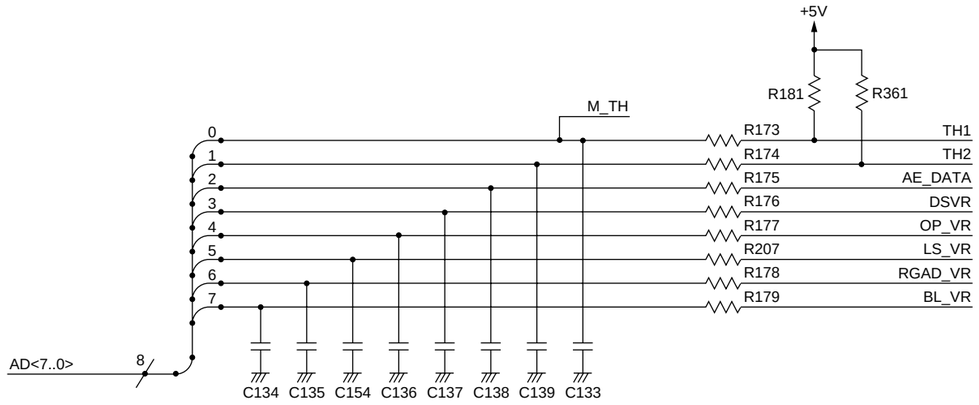
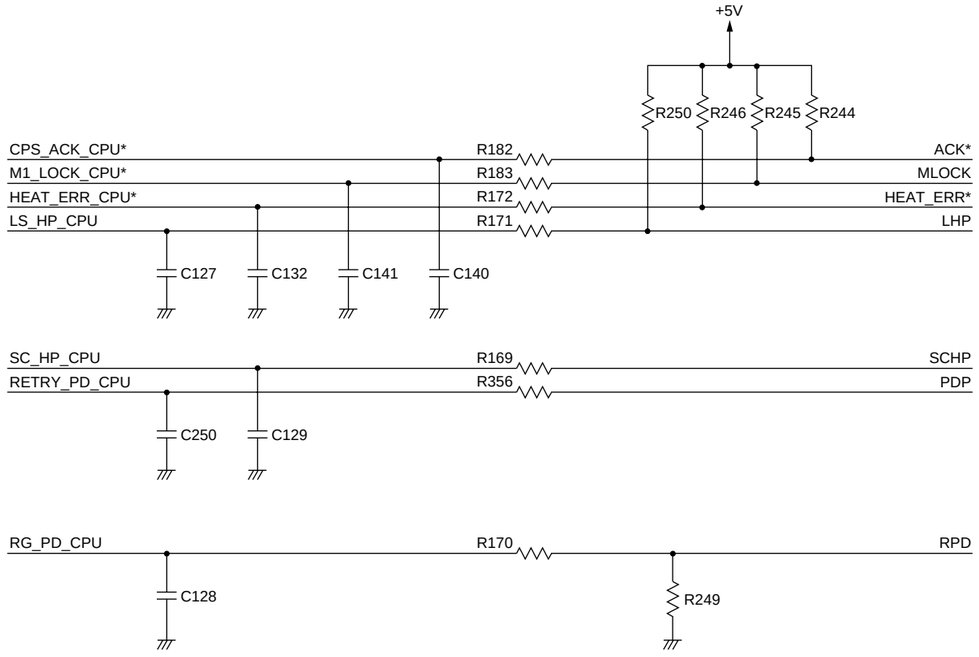
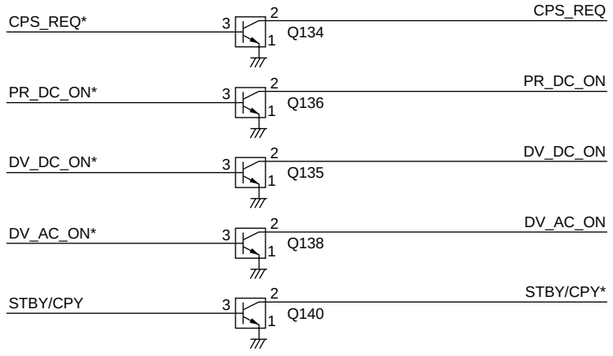
DC Controller Circuit Diagram (6/8)









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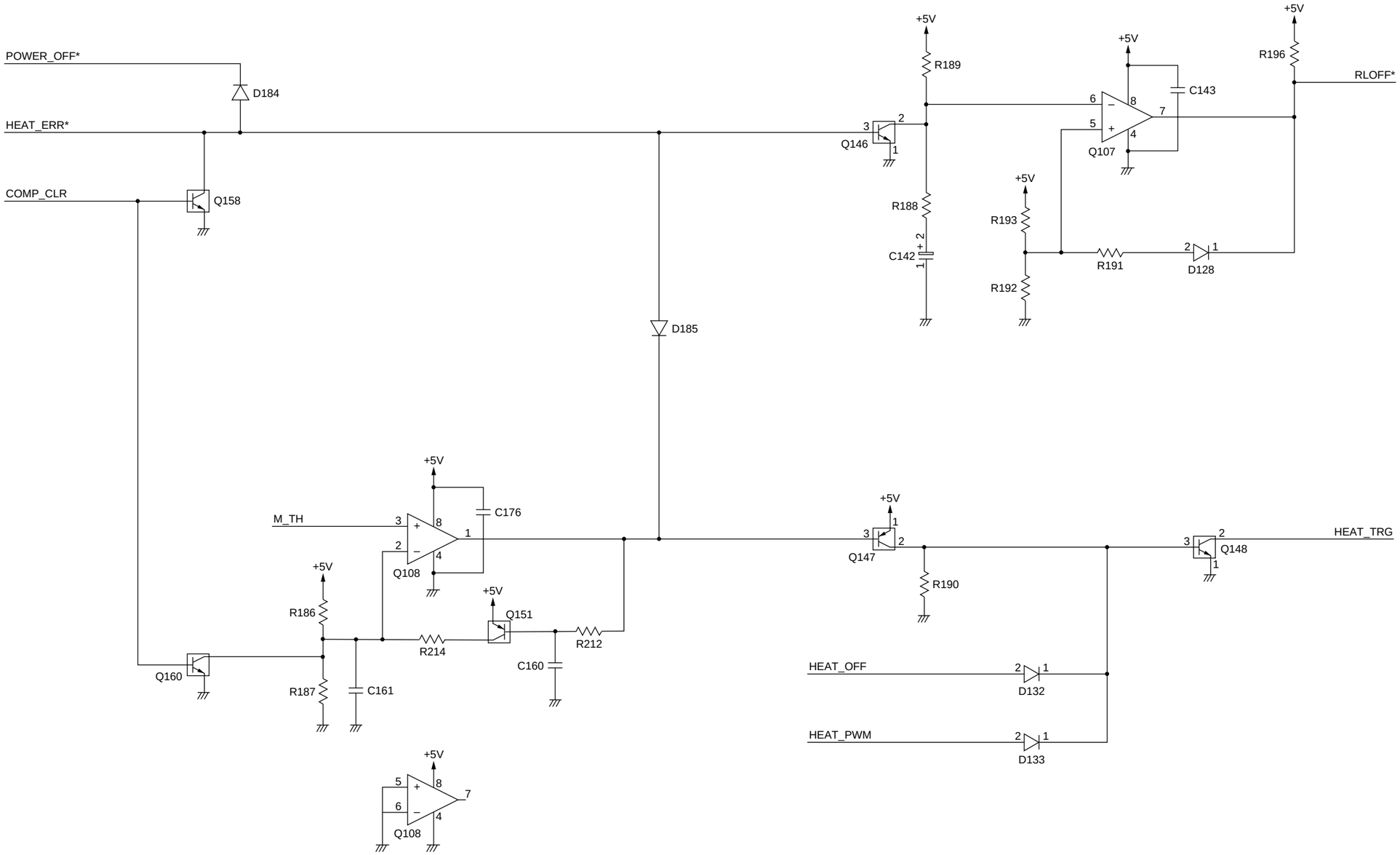
DC Controller Circuit Diagram (7/8)



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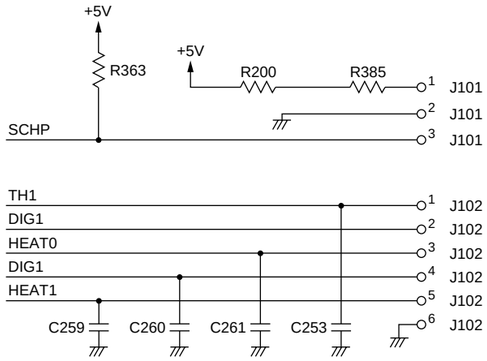
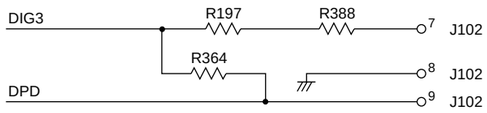
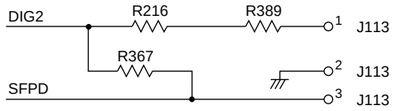
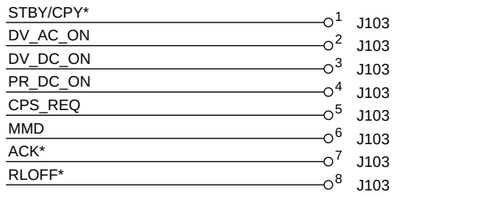
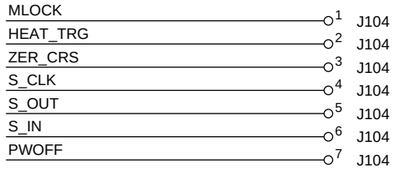
DC Controller Circuit Diagram (8/8)

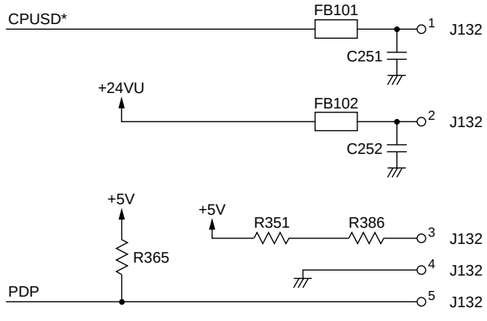


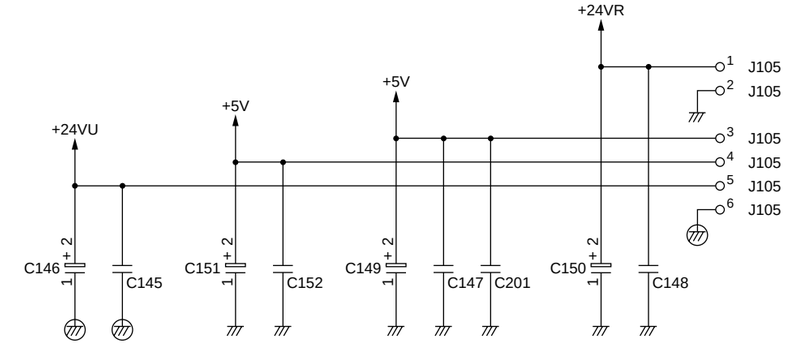


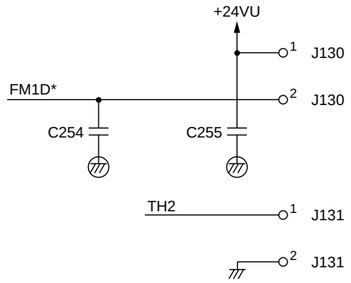


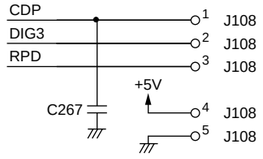


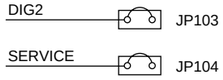


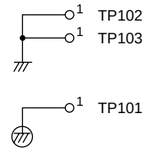


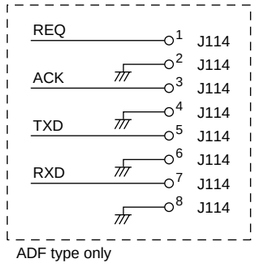


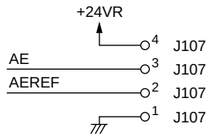


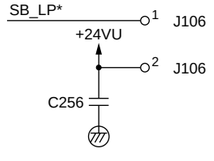


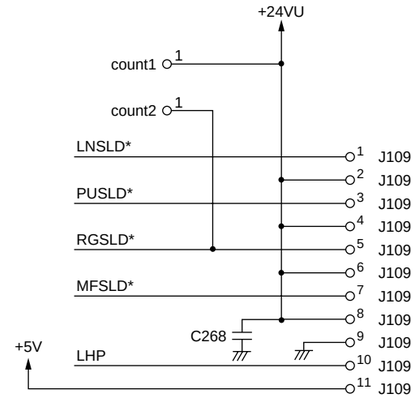


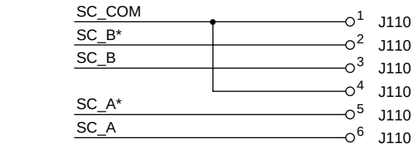


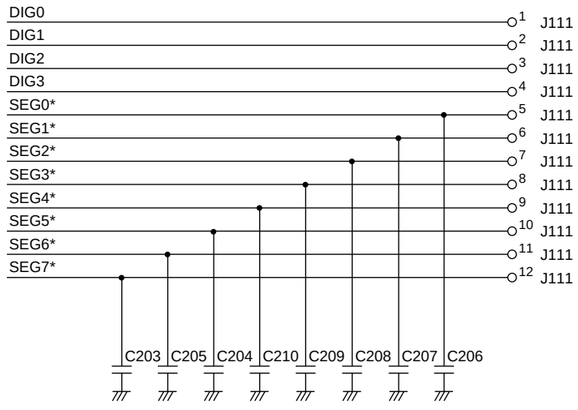


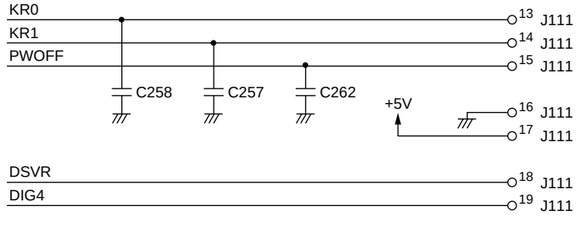












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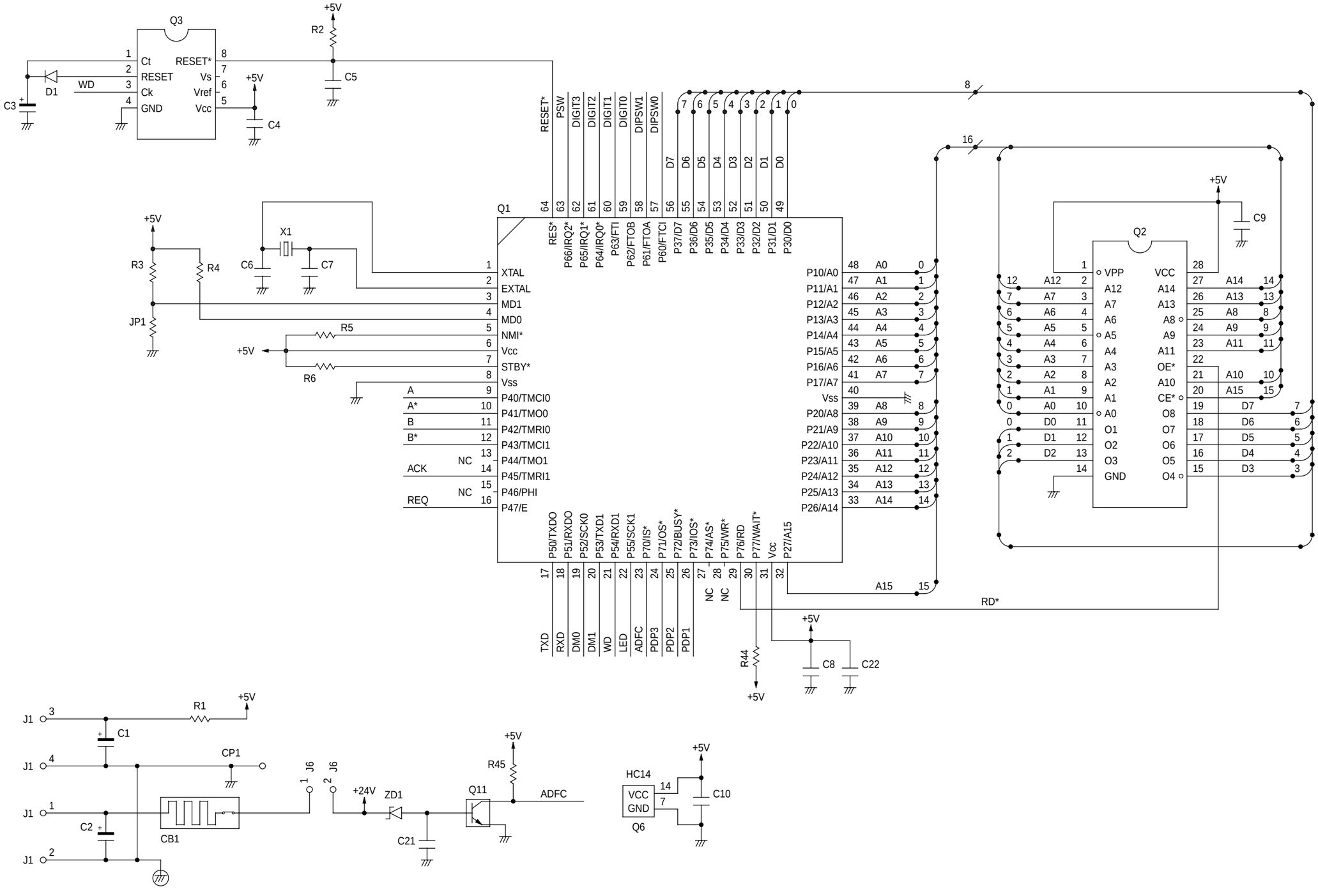
E. ADF CONTROLLER CIRCUIT DIAGRAM

ADF Controller Circuit Diagram (1/3)



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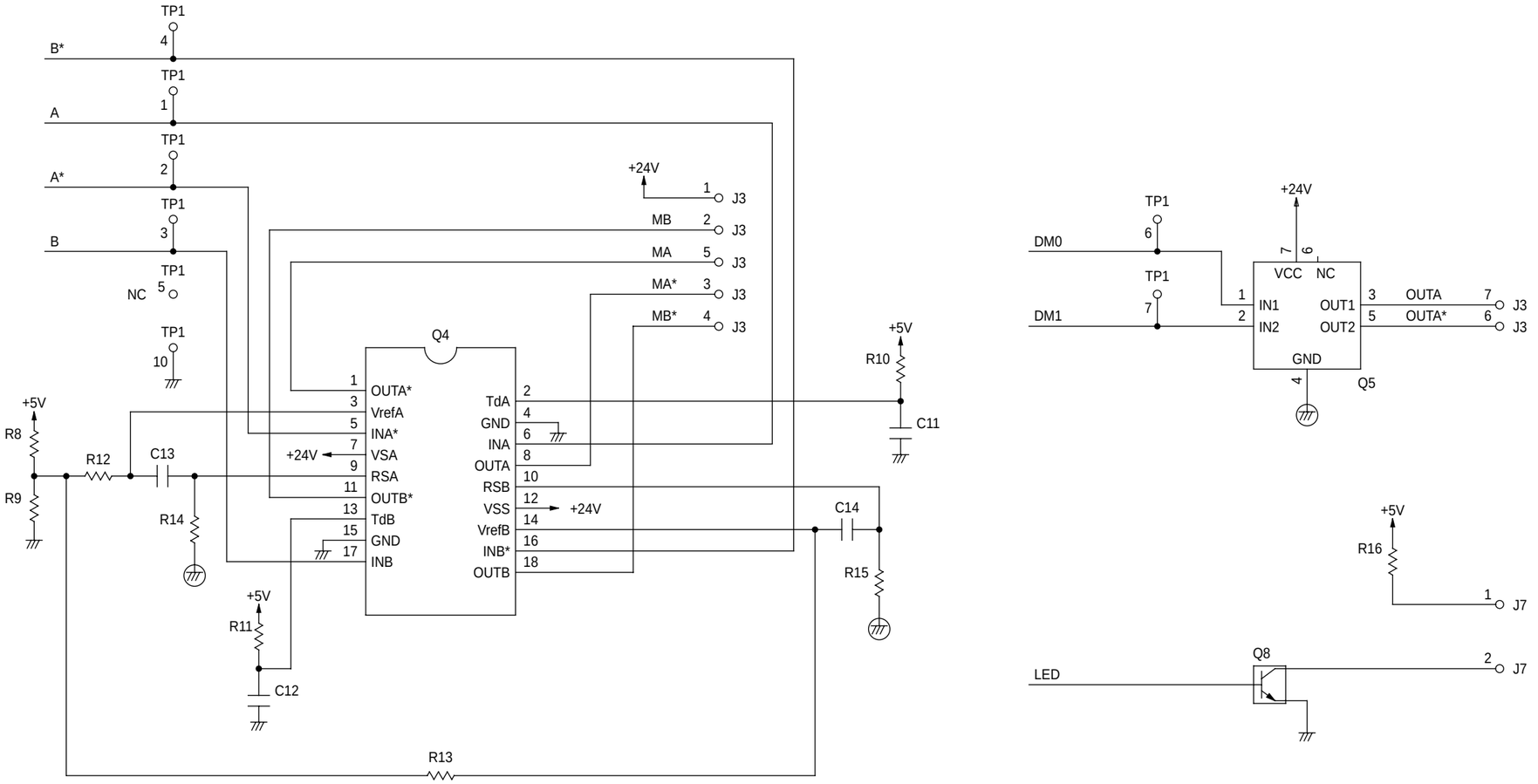
ADF Controller Circuit Diagram (2/3)



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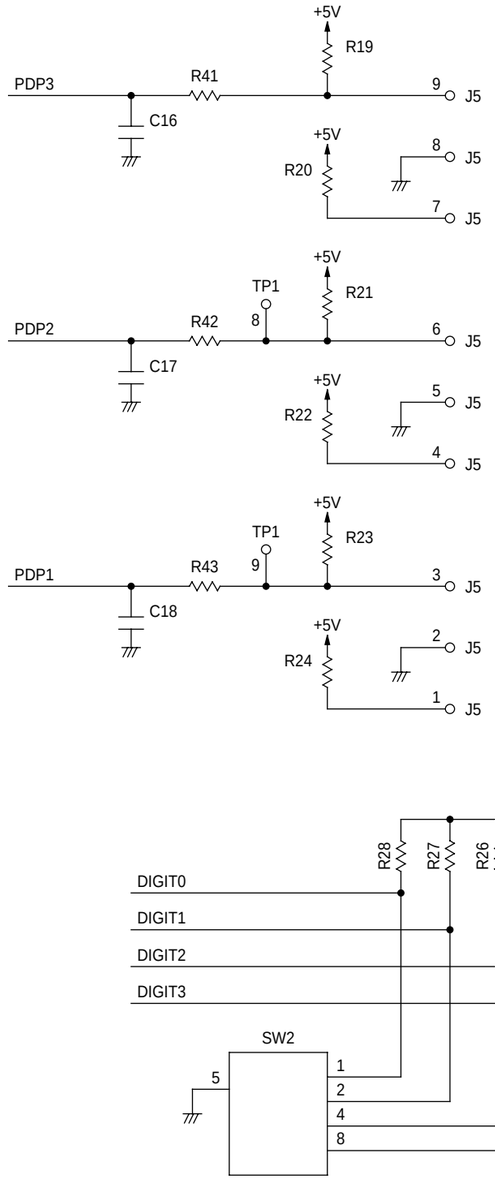
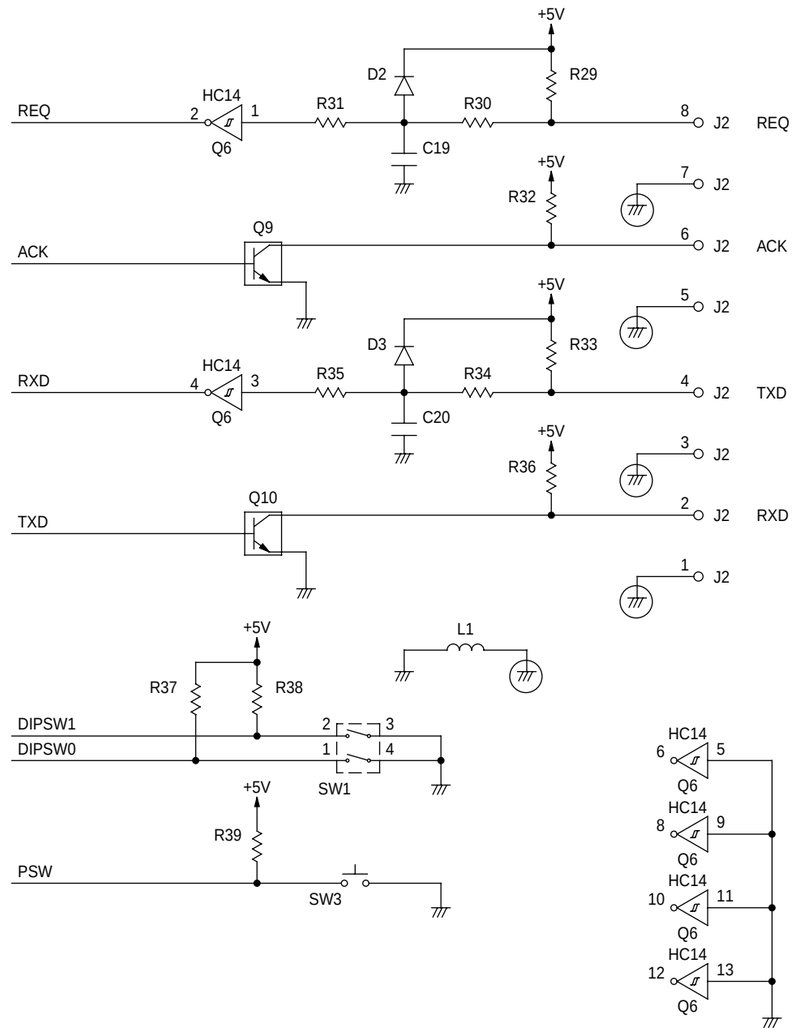
ADF Controller Circuit Diagram (3/3)





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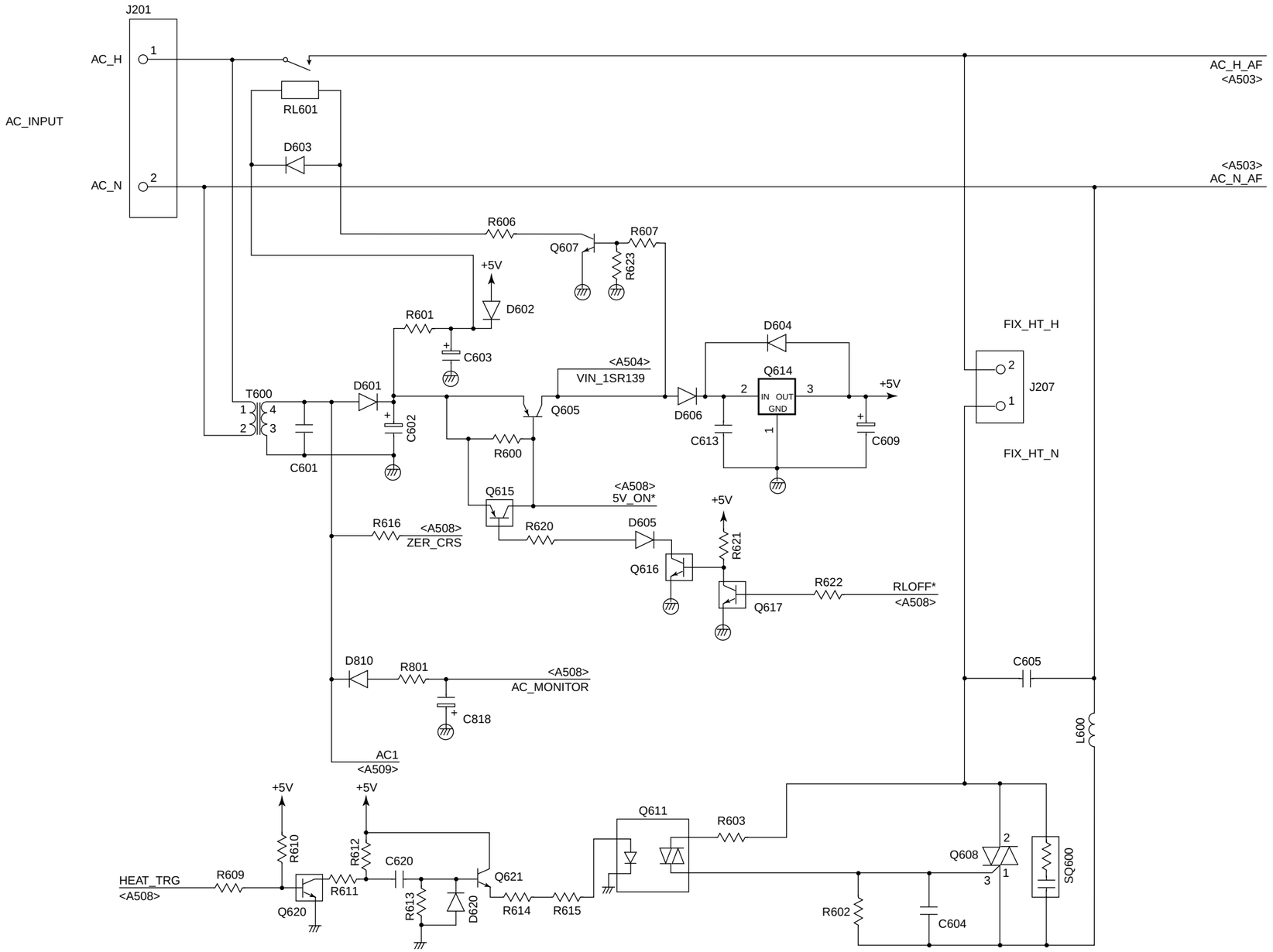
F. COMPOSITE POWER SUPPLY CIRCUIT DIAGRAM

Composite Power Supply Circuit Diagram [A502] (1/8)



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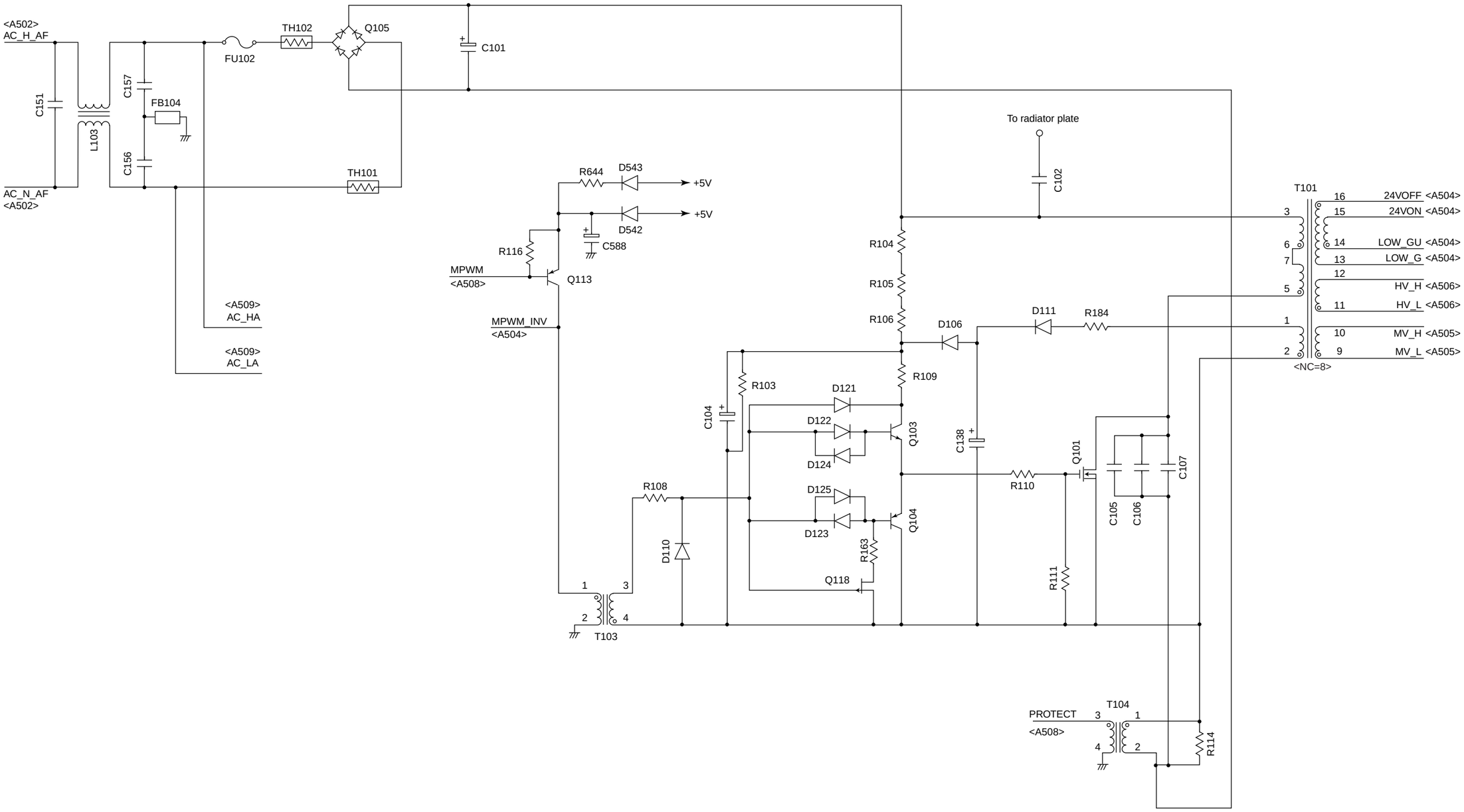
Composite Power Supply Circuit Diagram [A503] (2/8)



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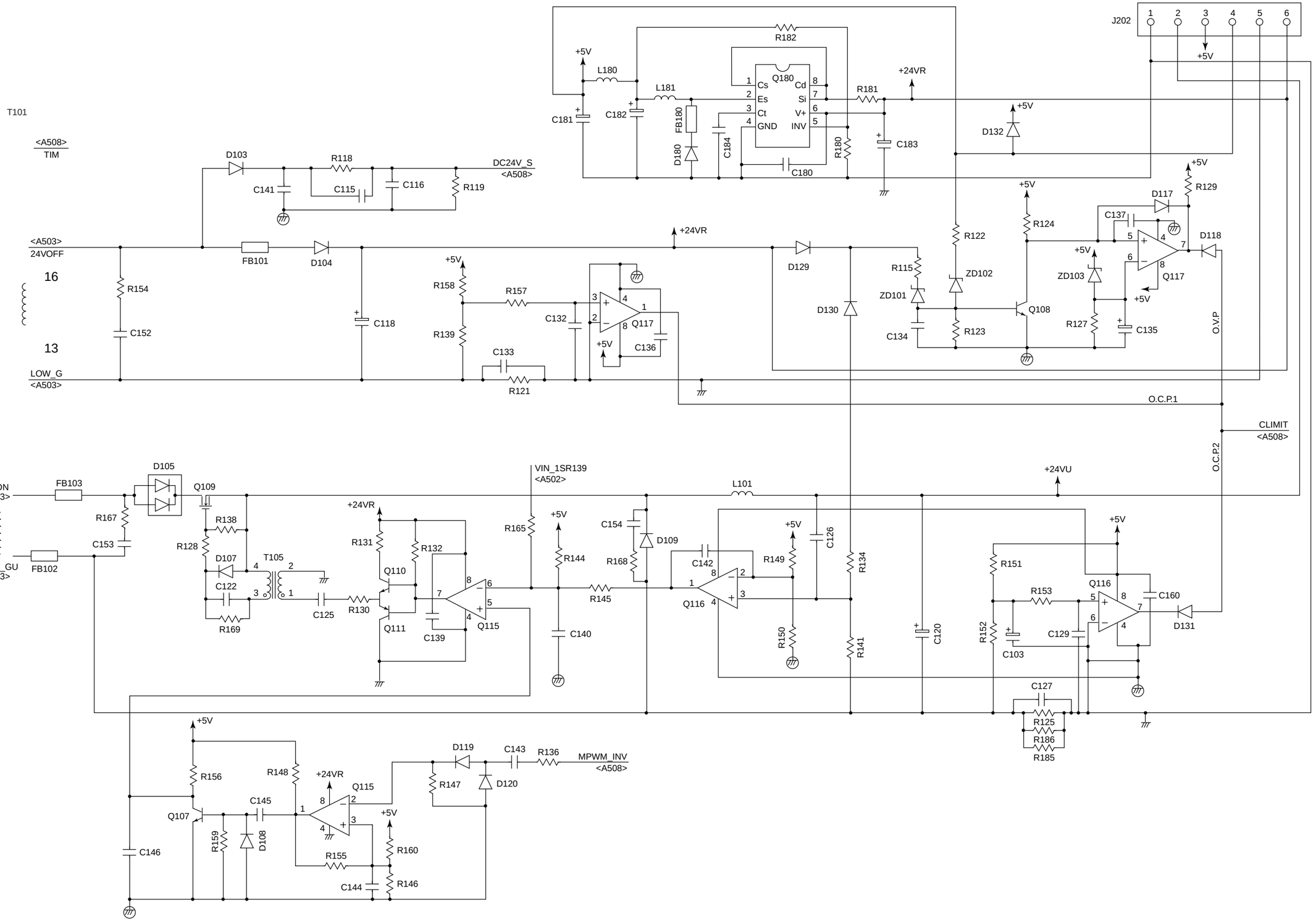
Composite Power Supply Circuit Diagram [A504] (3/8)



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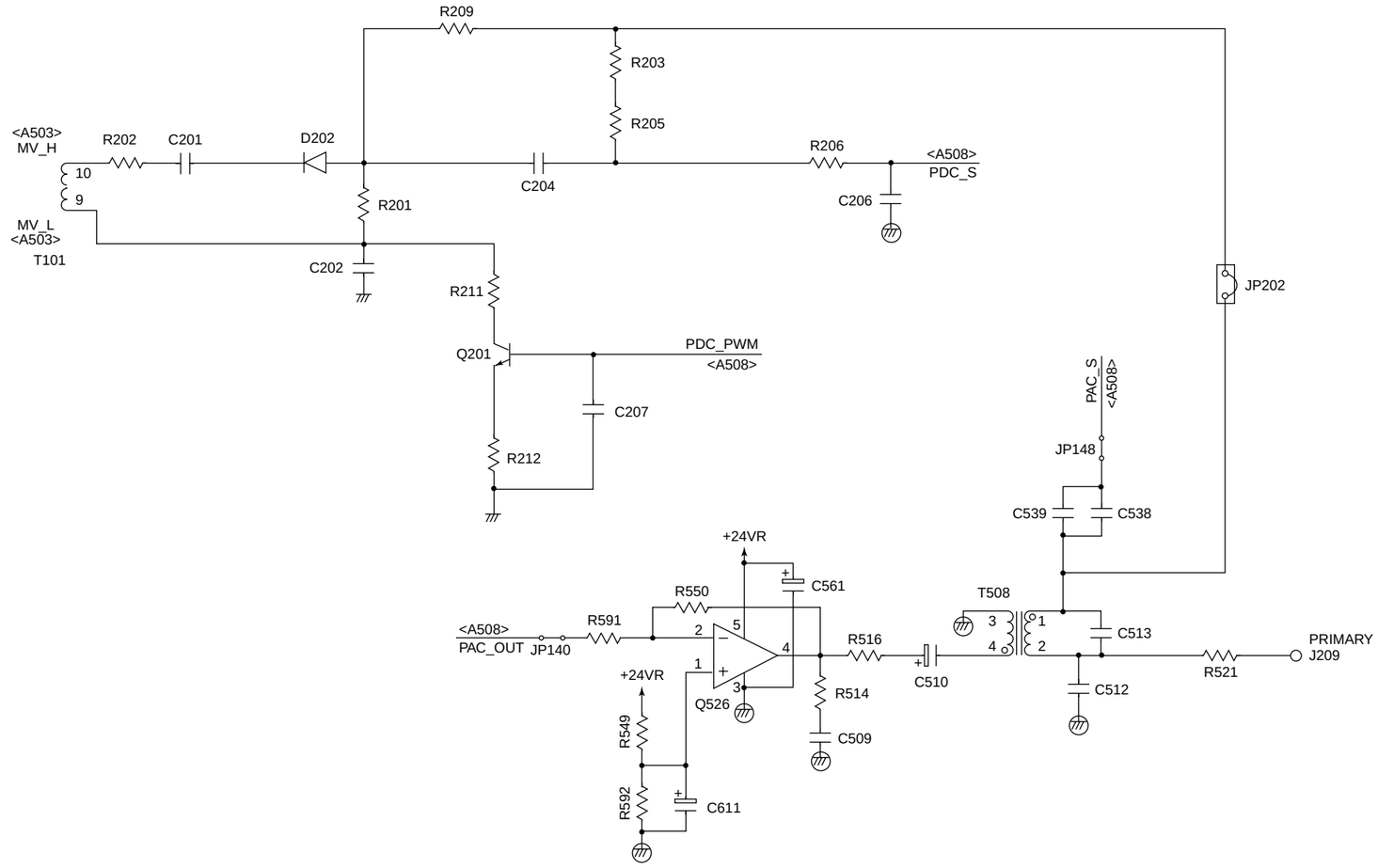
Composite Power Supply Circuit Diagram [A505] (4/8)



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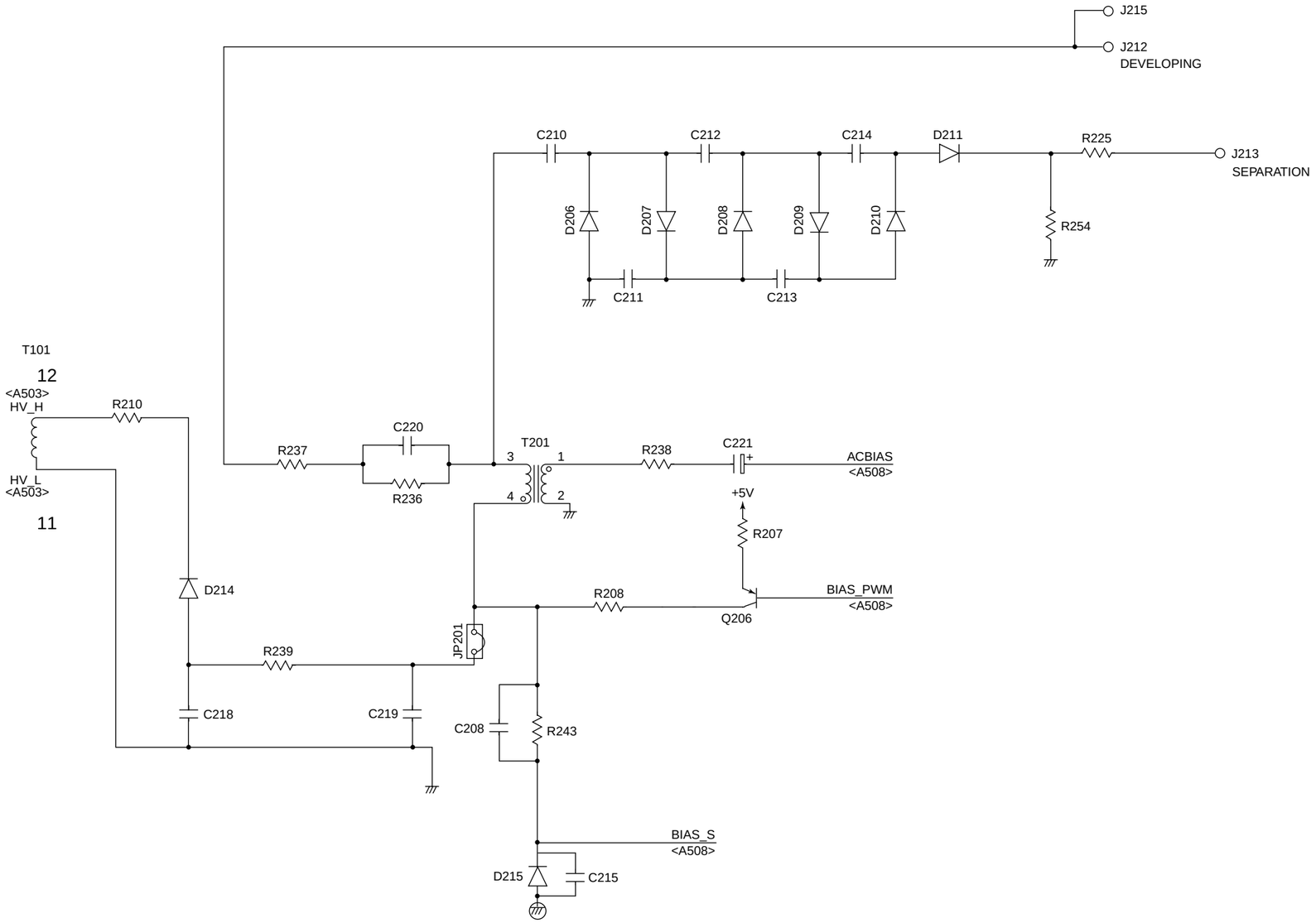
Composite Power Supply Circuit Diagram [A506] (5/8)



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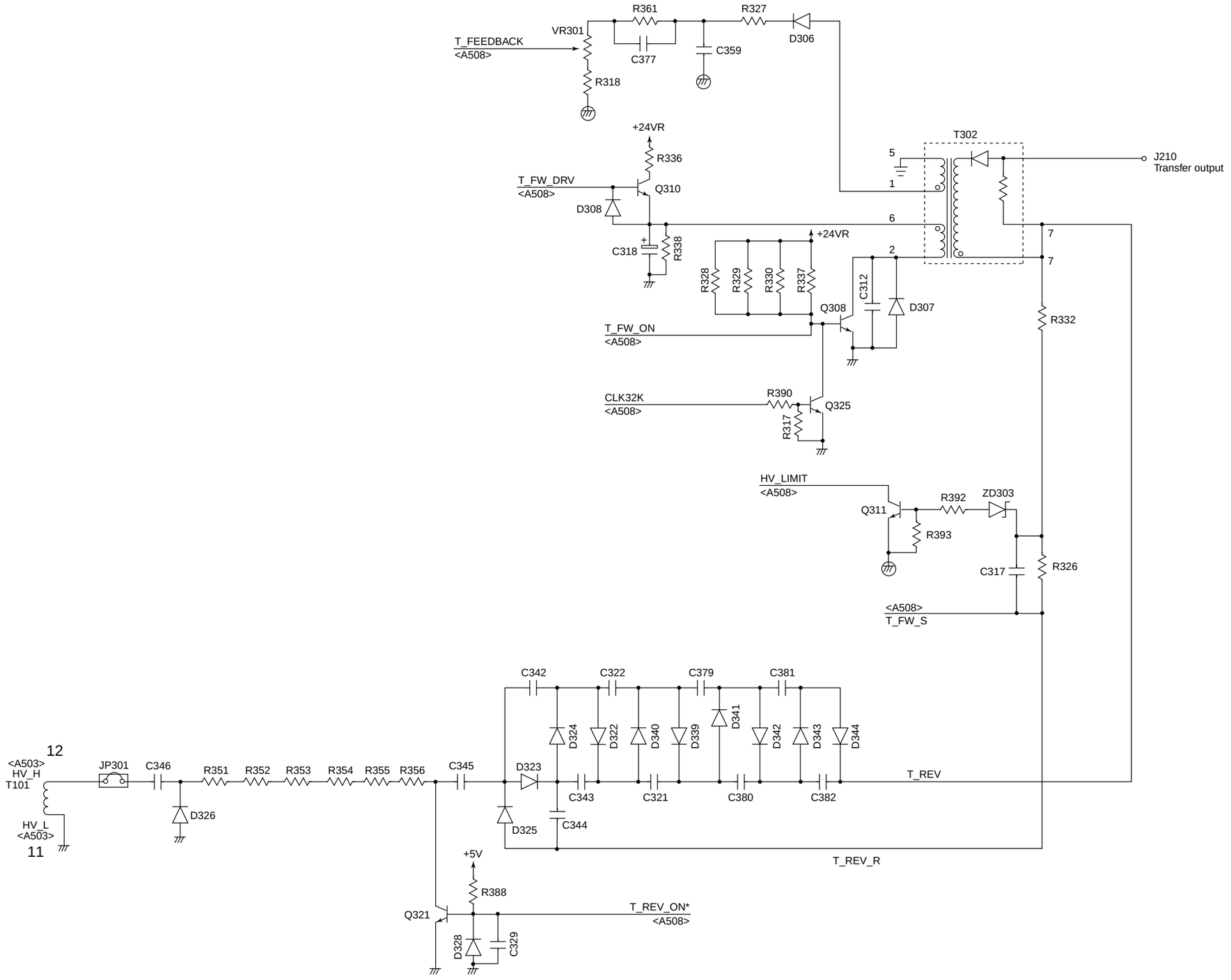
Composite Power Supply Circuit Diagram [A507] (6/8)



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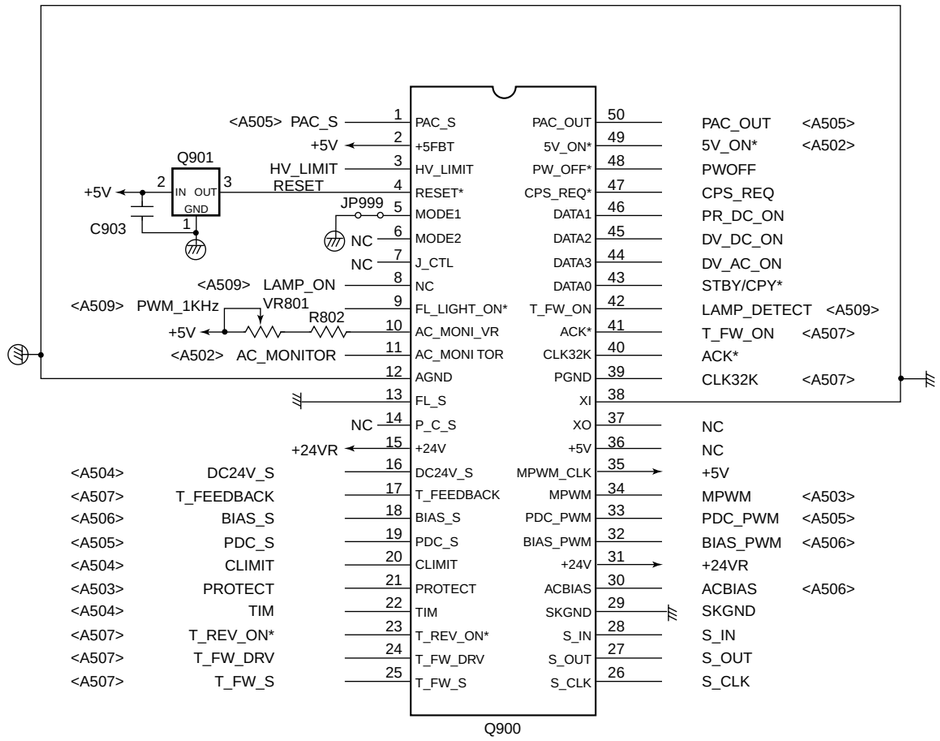
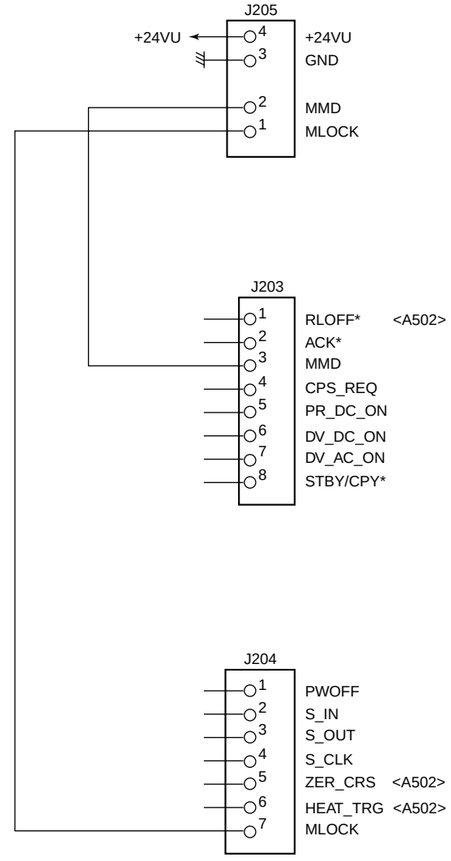
Composite Power Supply Circuit Diagram [A508] (7/8)



JP999 : 220 / 240V model only



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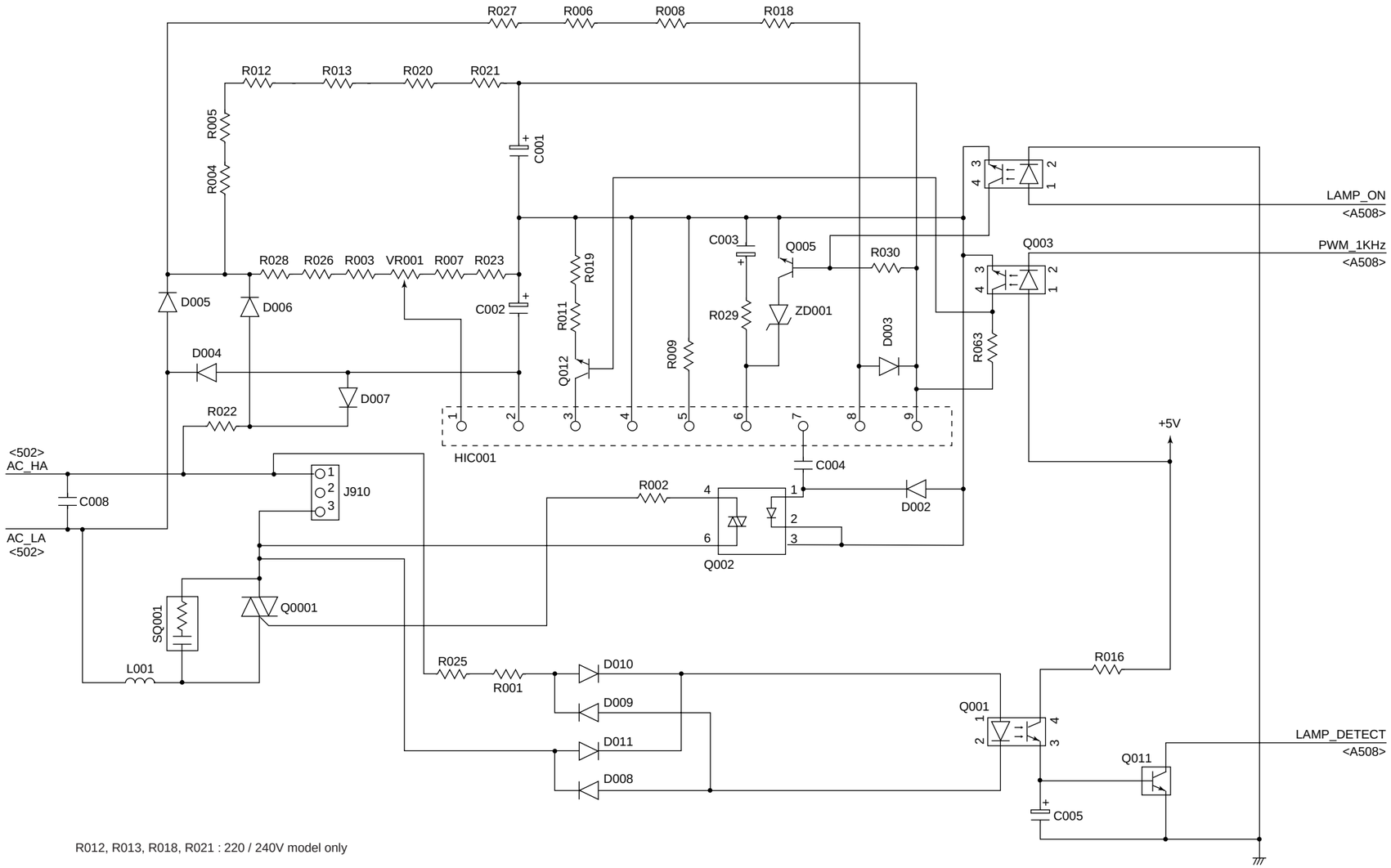
Composite Power Supply Circuit Diagram [A509] (8/8)



R012, R013, R018, R021 : 220 / 240V model only

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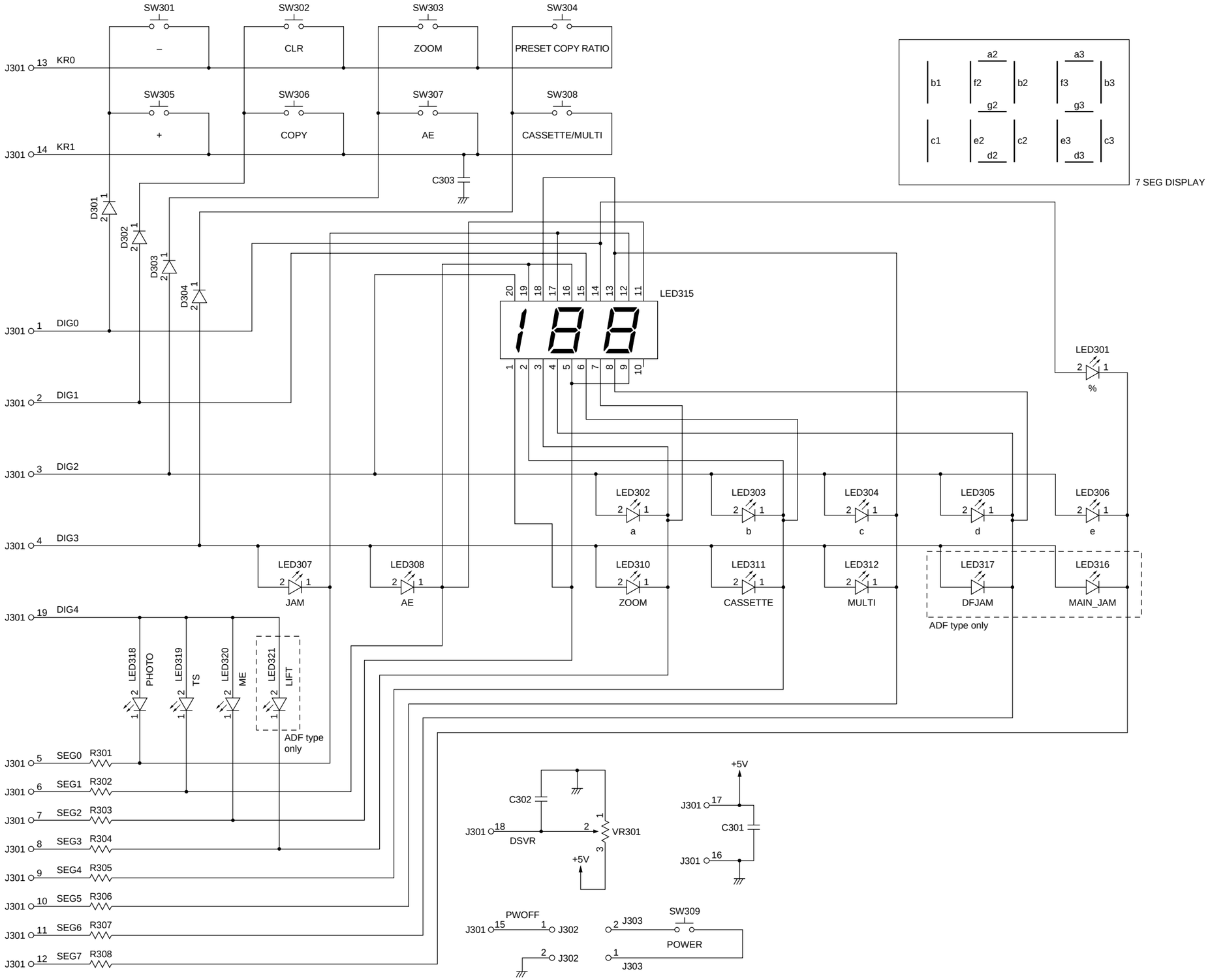
G. CONTROL PANEL CIRCUIT DIAGRAM



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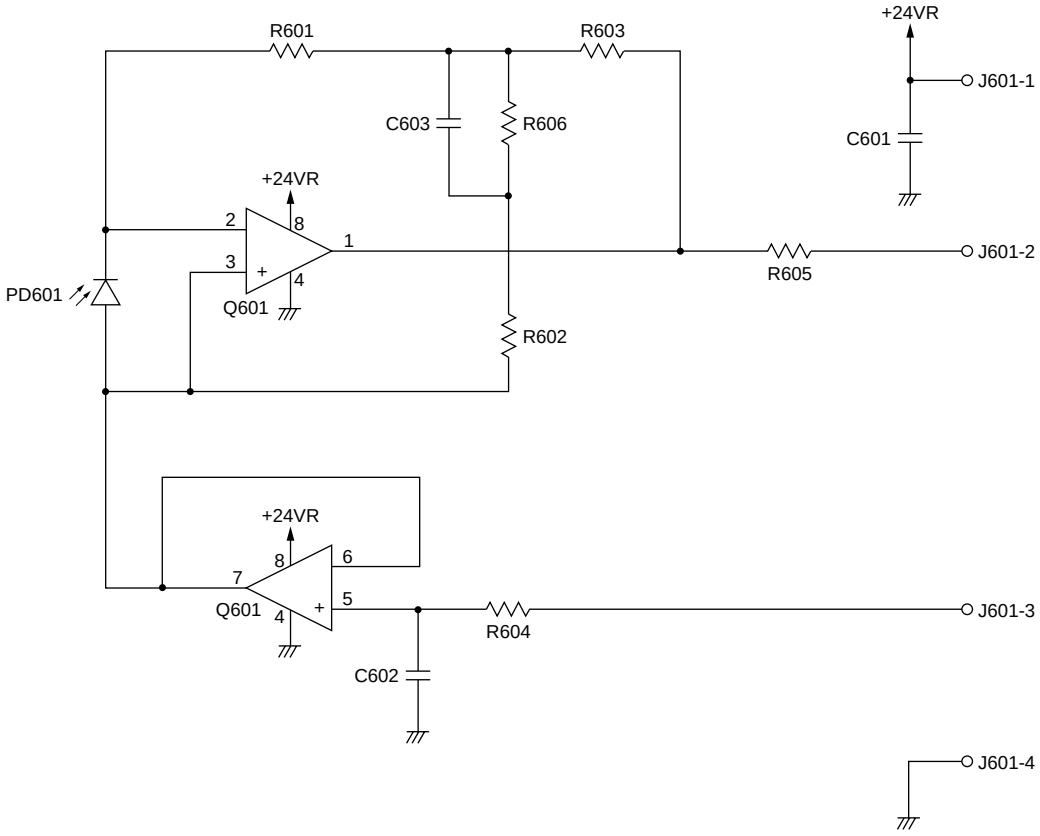
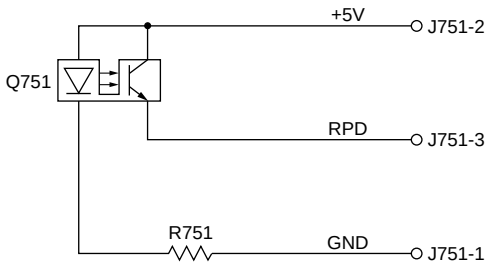
H. AE SENSOR CIRCUIT DIAGRAM



I. SENSOR CIRCUIT DIAGRAM



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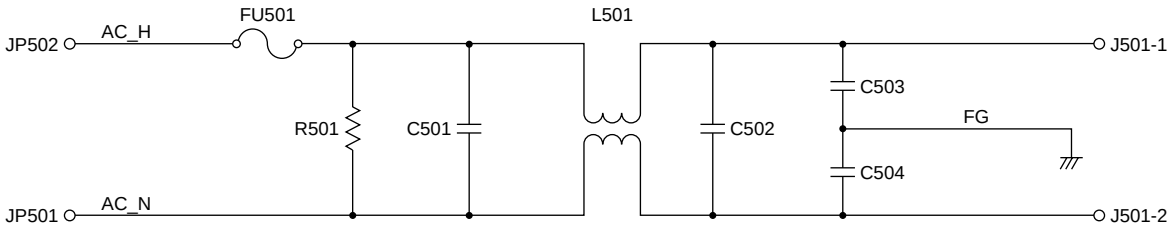
J. NOISE FILTER CIRCUIT DIAGRAM



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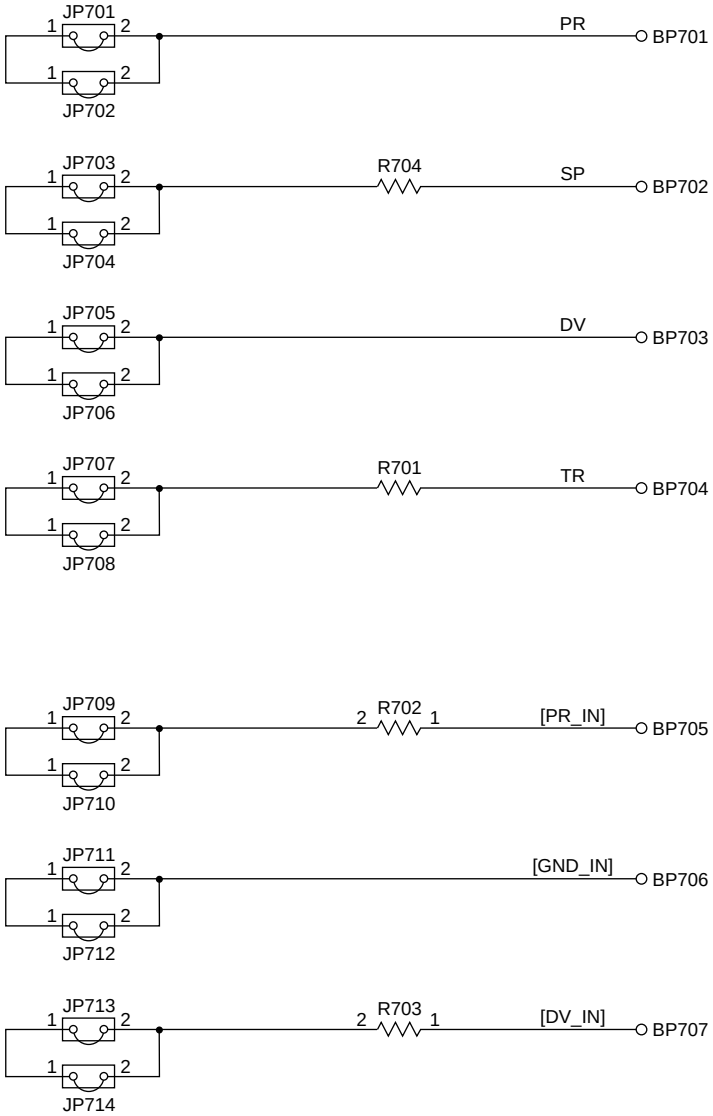
K. HIGH VOLTAGE CONTACT CIRCUIT DIAGRAM



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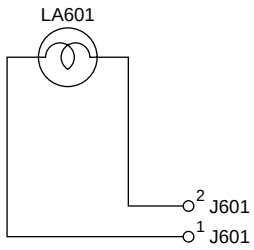
L. BLANK EXPOSURE (front) CIRCUIT DIAGRAM



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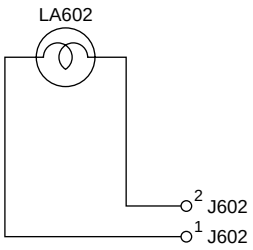
M. BLANK EXPOSURE (rear) CIRCUIT DIAGRAM



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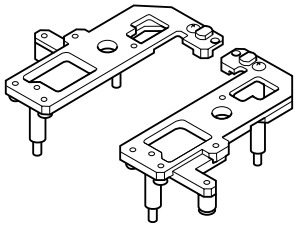
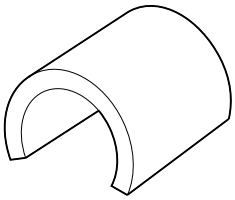
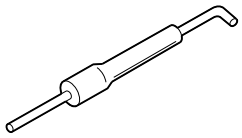
N. SPECIAL TOOLS

You will need the following special tool(s) in addition to the standard tools set when servicing the machine.

No	Tool	Tool No.	Shape	Rank*	Remarks
1	Mirror positioning tool (pair for front and rear)	FY9-3009		B	For adjusting the distance between the No.1 and No.2 mirrors.
2	Wire clip	FY9-3017		B	For fixing the scanner wire in place while adjusting its tension.
3	Spring gauge	CK-0054		B	For checking the cassette spring pressure Range of measurements: 0 to 1,500g

*Rank:

A: Each service person is expected to carry one.
B: Each five or so service persons is expected to carry one.
C: Each workshop is expected to carry one.

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O. SOLVENTS/OILS

No.	Name	Uses	Composition	Remarks
1	Alcohol	Cleaning: e.g., glass, plastic, rubber parts; external covers	Hydrocarbon (fluorine family) Alcohol Surface active agent	• Do not bring near fire. • Procure locally. • Isopropyl alcohol may be substituted.
2	Solvent	Cleaning: e.g., metal; oil or toner dirt	Hydrocarbon (fluorine/chlorine family) Alcohol	• Do not bring near fire. • Procure locally.
3	Lubricating oil	Lubricating spring clutch	Mineral oil (paraffin family)	• CK-0451 (100cc)
4	Lubricating oil	Lubricating drive and friction parts, scanner rail	Silicone oil	• CK-0551 (20g)

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PC800s/900s/950

PARTS CATALOG

REVISION 0

Canon

AUG. 1999

FY8-31EB-000

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PREFACE

This Parts Catalog contains listings of parts used in the PC800s/900s/950. Diagrams are provided with the listings to aid the service technician in identifying clearly, the item to be ordered.

Whenever ordering parts, consult this Parts Catalog for all of the information pertaining to each item. Be sure to include, in the Parts Request, the full item description, the item part number and the quantity.

Canon Inc.

Office Imaging Products Technical Support Div.
5-1, Hakusan 7-chome,
Toride-city, Ibaraki 302-8501, Japan

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Imprimé au Japon

LIST OF SERIAL NUMBER

PC860
SINGLE TYPE
〔 220/240V 50Hz F13-8491 TYA00001- 〕

PC880
MULTI TYPE
〔 220/240V 50Hz F13-8291 TZA00001- 〕

PC890
MULTI,ADF TYPE
〔 220/240V 50Hz F13-8242 UAA00001- 〕

PC920
SINGLE TYPE
〔 120V 60Hz F13-8431 TVB00001-
220/240V 50Hz F13-8441 PUD00001-
PUE00001- 〕

PC921
SINGLE TYPE
〔 120V 60Hz F13-8432 TVC00001- 〕

PC940
SINGLE TYPE
〔 120V 60Hz F13-8436 TVD00001- 〕

PC941
SINGLE TYPE
〔 120V 60Hz F13-8437 TVE00001- 〕

PC950
MULTI TYPE
〔 100V 50/60Hz F13-8211 MTB00001-
120V 60Hz F13-8231 TVF00001-
220/240V 50Hz F13-8241 PUF00001-
PUG00001- 〕

PC960
SINGLE,ADF TYPE
〔 120V 60Hz F13-8434 TVG00001- 〕

PC980
MULTI,ADF TYPE
〔 120V 60Hz F13-8232 TVH00001- 〕

PC981
MULTI,ADF TYPE
〔 120V 60Hz F13-8233 TVJ00001- 〕

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161. ADF ASSEMBLY (ADF TYPE)
162. ADF TRAY ASSEMBLY (ADF TYPE)

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230. MAIN DRIVE ASSEMBLY
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251. PAPER PICK-UP DRIVE ASSEMBLY (SINGLE TYPE)
290. ADF DRIVE ASSEMBLY (ADF TYPE)

300. CASSETTE (250 UNIVERSAL TYPE)
301. CASSETTE (250 A4 TYPE)
302. CASSETTE (500 TYPE)
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401. MIRROR ASSEMBLY 2
402. ZOOM MIRROR ASSEMBLY
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530. TRANSFER ASSEMBLY

810. FIXING ASSEMBLY

910. DC POWER SUPPLY PCB ASSEMBLY
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935. ADF DC CONTROLLER PCB ASSEMBLY (ADF TYPE)
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B. LIST OF CONNECTORS

C. LIST OF STANDARD FASTENERS

D. NUMERICAL INDEX

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FIGURE A ASSEMBLY LOCATION DIAGRAM(1/3)

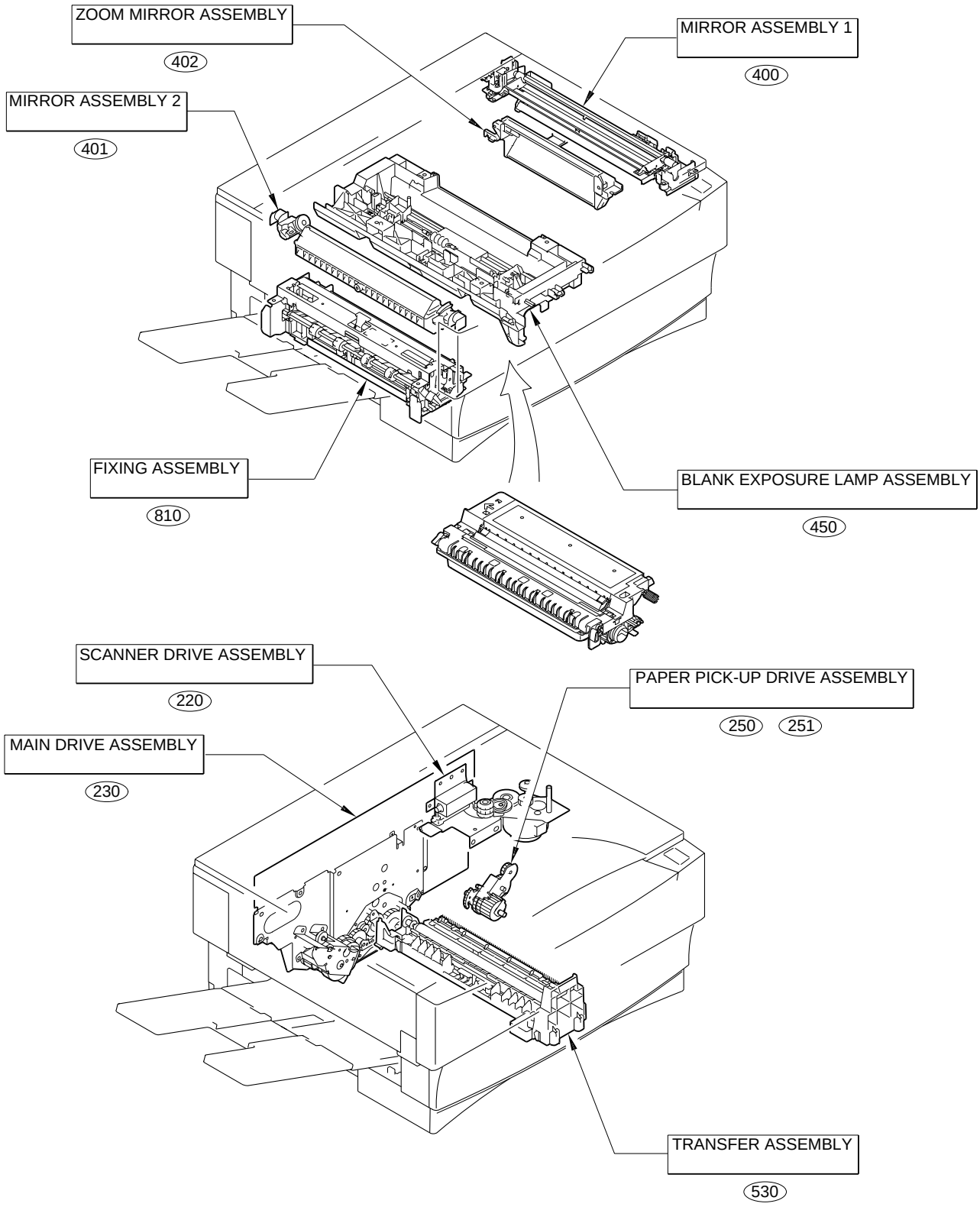

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FIGURE A ASSEMBLY LOCATION DIAGRAM(2/3)

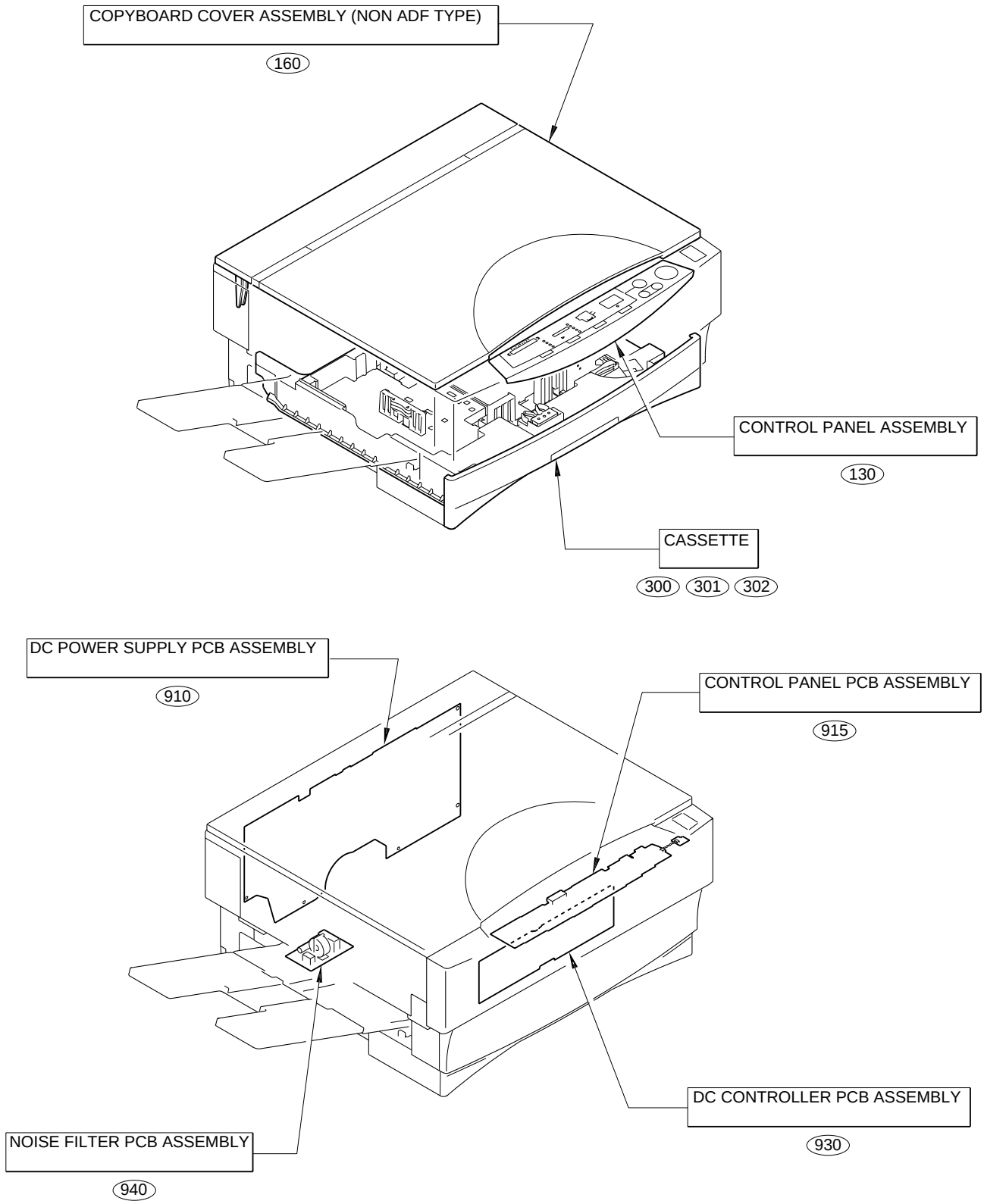

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FIGURE A ASSEMBLY LOCATION DIAGRAM(3/3)

ADF TYPE

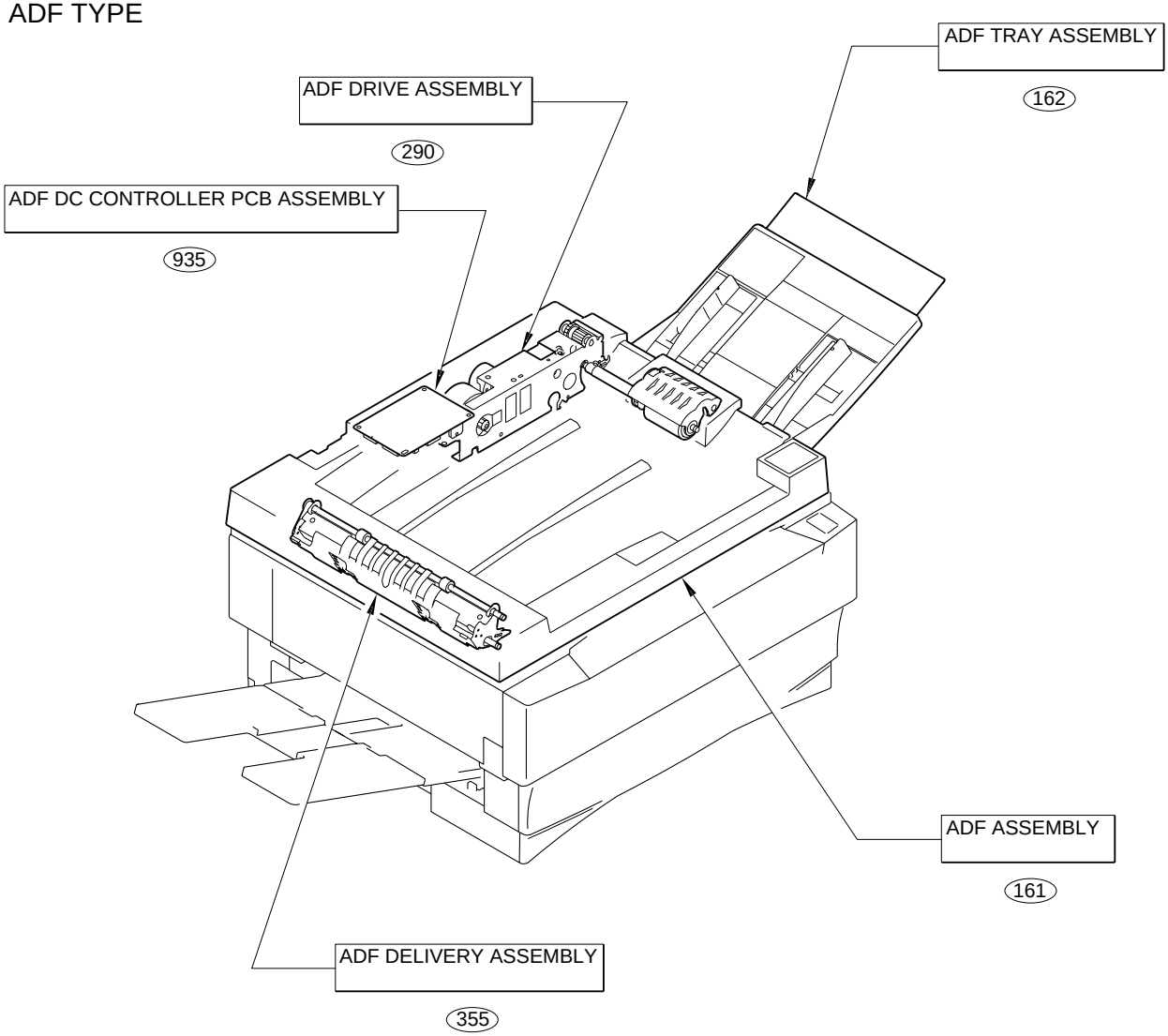

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FIGURE 100 EXTERNAL COVERS, PANELS, ETC.

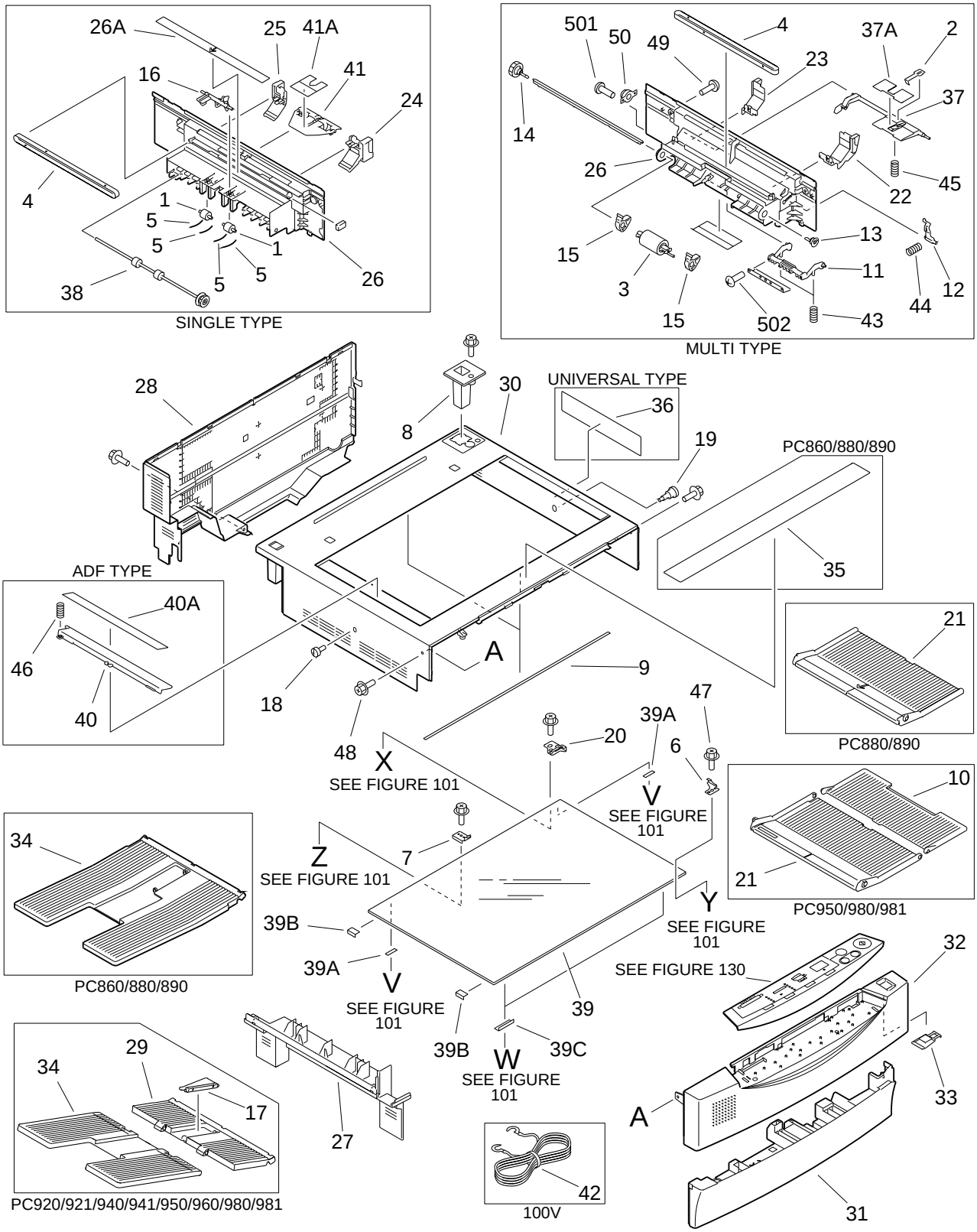

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
100 -	NPN		RF	EXTERNAL COVERS, PANELS, ETC.	
1	FB1 - 0624 - 000		2	ROLLER, PAPER PICK-UP	SINGLE TYPE
2	FB1 - 7283 - 000		1	SPRING, LEAF	MULTI TYPE
3	FB1 - 7303 - 000		1	ROLLER, PAPER PICK-UP	MULTI TYPE
4	FB1 - 7403 - 000		1	FILM, SLIDE	
5	FB1 - 8835 - 000		4	SPRING, WIRE	SINGLE TYPE
6	FB2 - 4606 - 000		1	RETAINER, GLASS, 1	
7	FB2 - 4607 - 000		1	RETAINER, GLASS, 2	
8	FB2 - 4785 - 000		1	SUPPORT, COPYBOARD	NON ADF TYPE
	FB3 - 0839 - 020		1	SUPPORT, ADF	ADF TYPE
9	FB2 - 4790 - 020		2	SHEET, GLASS	
10	FB2 - 5177 - 000		1	TRAY, SUB	PC950/980/981
11	FB2 - 5210 - 000		1	FLAPPER, SEPARATING	MULTI TYPE
12	FB2 - 5213 - 000		1	LEVER, TRAY	MULTI TYPE
13	FB2 - 5214 - 020		1	HOLDER, PICK-UP SHAFT	MULTI TYPE
14	FB2 - 5215 - 020		1	GEAR, 26T	MULTI TYPE
15	FB2 - 5217 - 020		2	ROLLER	MULTI TYPE
16	FB2 - 5240 - 020		1	ARM, SENSOR	SINGLE TYPE
17	FB2 - 5428 - 000		1	TRAY, COPY, SUB	PC920/921/940/941 PC950/960/980/981
18	FB2 - 5500 - 000		1	SCREW,M4X12	
19	FB2 - 5502 - 000		1	SCREW, STEPPED	
20	FB3 - 0824 - 000		1	RETAINER, GLASS	NON ADF TYPE
	FF9 - 1514 - 000		1	RETAINER, GLASS	ADF TYPE
21	FB4 - 1096 - 000		1	TRAY, PAPER PICK-UP	PC880/890
	FB2 - 5176 - 000		1	TRAY, PAPER PICK-UP	PC950 100V
	FB2 - 5175 - 000		1	TRAY, PICK-UP	PC980/981 PC950 120/220/240V
22	FB4 - 1195 - 000		1	PLATE, PAPER STOP END, FRONT	MULTI TYPE
23	FB4 - 1196 - 000		1	PLATE, PAPER STOP END, REAR	MULTI TYPE
24	FB4 - 1260 - 000		1	GUIDE, SIDE, FRONT	SINGLE TYPE
25	FB4 - 1261 - 000		1	GUIDE, SIDE, REAR	SINGLE TYPE

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
100 - 26	FB4 - 9827 - 000		1	PANEL, RIGHT	MULTI TYPE
	FF5 - 8993 - 000		1	PANEL, RIGHT	SINGLE TYPE
26A	FB2 - 5247 - 000		1	LABEL, SIZE	SINGLE TYPE
27	FB4 - 9888 - 000		1	PANEL, LEFT	
28	FB4 - 9896 - 000		1	PANEL, REAR	NON ADF TYPE 100V
	FB4 - 9895 - 000		1	PANEL, REAR	NON ADF TYPE 120/220/240V
	FB4 - 9897 - 000		1	PANEL, REAR	ADF TYPE
29	FB4 - 9898 - 000		1	TRAY, COPY, 1	PC920/921/940/941 PC950/960/980/981
30	FB4 - 9899 - 000		1	PANEL, TOP	NON ADF TYPE 100V
	FB4 - 9900 - 000		1	PANEL, TOP	NON ADF TYPE 120V
	FB5 - 1878 - 00S		1	PANEL, TOP	NON ADF TYPE 220/240V
	FB4 - 9902 - 000		1	PANEL, TOP	ADF TYPE 120V
	FB5 - 1879 - 00S		1	PANEL, TOP	ADF TYPE 220/240V
31	FB4 - 9906 - 000		1	PANEL, LOWER, FRONT	
32	FB5 - 1866 - 00S		1	PANEL, CONTROL, LARGE	PC860
	FB5 - 1863 - 00S		1	PANEL, CONTROL, LARGE	PC880
	FB5 - 1861 - 00S		1	PANEL, CONTROL, LARGE	PC890
	FB5 - 1856 - 000		1	PANEL, CONTROL, LARGE	PC920 120V
	FB5 - 1864 - 000		1	PANEL, CONTROL, LARGE	PC920 220/240V
	FB5 - 1859 - 000		1	PANEL, CONTROL, LARGE	PC921
	FB5 - 1857 - 000		1	PANEL, CONTROL, LARGE	PC940
	FB5 - 1860 - 000		1	PANEL, CONTROL, LARGE	PC941
	FB5 - 1862 - 000		1	PANEL, CONTROL, LARGE	PC950 100/220/240V
	FB5 - 1853 - 000		1	PANEL, CONTROL, LARGE	PC950 120V
	FB5 - 1855 - 000		1	PANEL, CONTROL, LARGE	PC960
	FB5 - 0120 - 000		1	PANEL, CONTROL, LARGE	PC980
	FB5 - 1854 - 000		1	PANEL, CONTROL, LARGE	PC981
33	FB5 - 1877 - 000		1	KEY TOP, ON/OFF	
34	FB5 - 1880 - 00S		1	TRAY, PAPER DELIVERY	PC860/880/890
	FB2 - 5426 - 000		1	TRAY, COPY, 2	PC920/921/940/941 PC950/960/980/981

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
100 - 35	FB5 - 1882 - 00S		1	LABEL, OPERATION	PC860/880/890
36	FB5 - 1884 - 000		1	LABEL, "WARNING, RIGHT PLATE"	UNIVERSAL TYPE
37	FF5 - 2875 - 000		1	PLATE, PICK-UP	MULTI TYPE
37A	FB1 - 7295 - 000		1	SHEET, LIFTER ARM	MULTI TYPE
38	FF5 - 2893 - 020		1	ROLLER, SLIP	SINGLE TYPE
39	FF5 - 3728 - 000		1	GLASS, COPYBOARD	NON ADF TYPE
	FF5 - 3729 - 000		1	GLASS, COPYBOARD	ADF TYPE
39A	FB2 - 4791 - 000		2	SHEET, GLASS PROTECTIVE	
39B	FB2 - 4793 - 000		2	SHEET, GLASS PROTECTIVE	
39C	FB2 - 4794 - 000		2	SHEET, GLASS PROTECTIVE	
40	FF5 - 3905 - 000		1	GUIDE, PAPER JUMP	ADF TYPE
40A	FB3 - 0817 - 000		1	LABEL, "PAPER SIZE"	ADF TYPE
41	FF5 - 9001 - 000		1	GUIDE, PICK-UP LOWER	SINGLE TYPE
41A	FB4 - 9834 - 000		1	SHEET, PICK-UP LOWER GUIDE	SINGLE TYPE
42	FH2 - 5288 - 000		1	WIRE, GROUNDING	100V
43	FS5 - 2769 - 000		2	SPRING, COMPRESSION	MULTI TYPE
44	FS5 - 2770 - 000		1	SPRING, COMPRESSION	MULTI TYPE
45	FS5 - 2776 - 000		1	SPRING, COMPRESSION	MULTI TYPE
46	FS6 - 2270 - 000		1	SPRING, COMPRESSION	ADF TYPE
47	XA9 - 0760 - 000		AR	SCREW,RS,M3X6	
48	XA9 - 0762 - 000		2	SCREW,RS,M3X8	
49	XA9 - 0975 - 000		2	SCREW,P,M4X12	
50	XH9 - 0084 - 000		1	DAMPER UNIT	MULTI TYPE
501	XB4 - 7200 - 609		1	SCREW,TAPPING,TRUSS HEAD,M2X6	MULTI TYPE
502	XB4 - 7300 - 609		2	SCREW,TAPPING,TRUSS HEAD,M3X6	MULTI TYPE

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FIGURE 101 UPPER MAIN BODY(1/2)

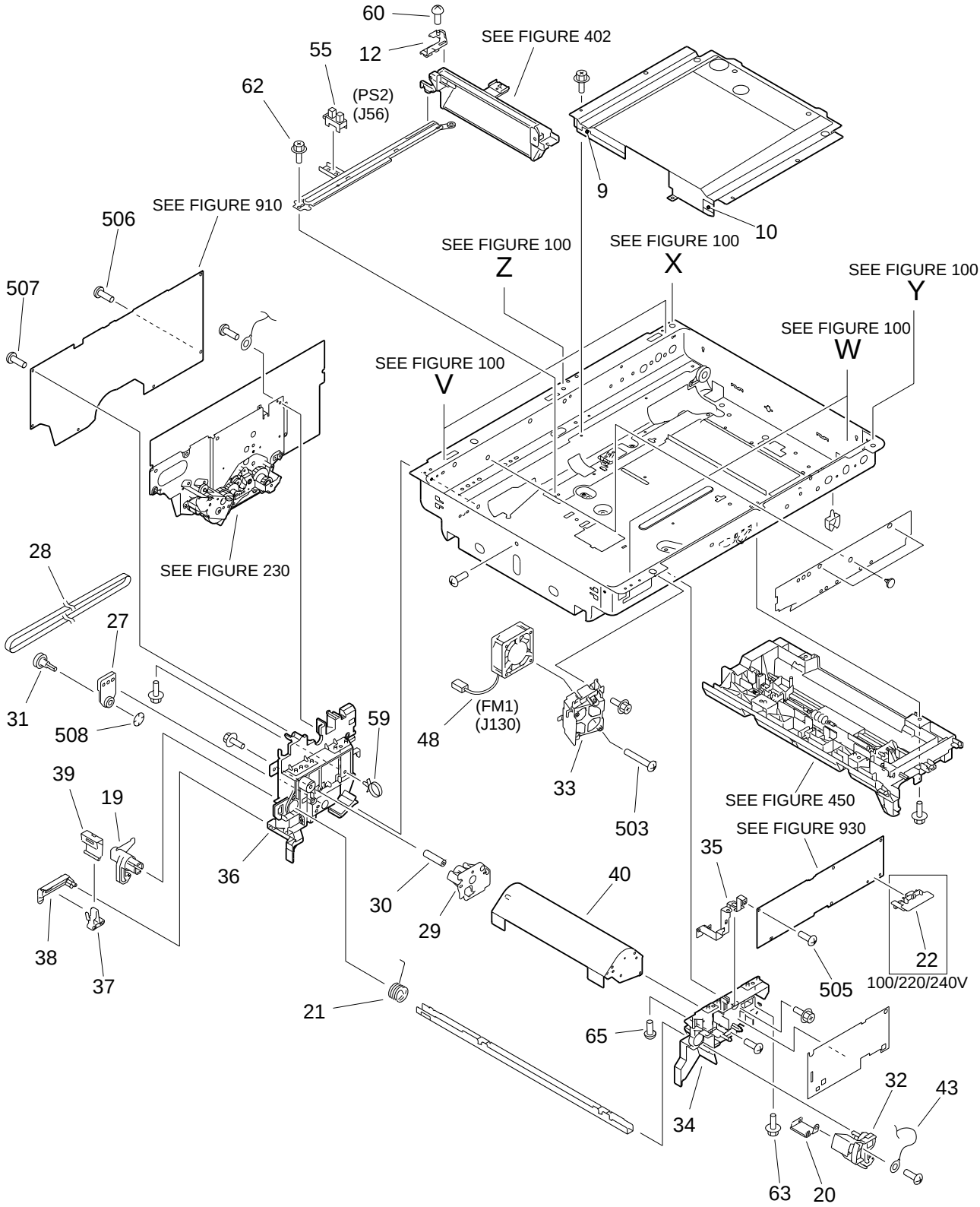

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FIGURE 101 UPPER MAIN BODY(2/2)

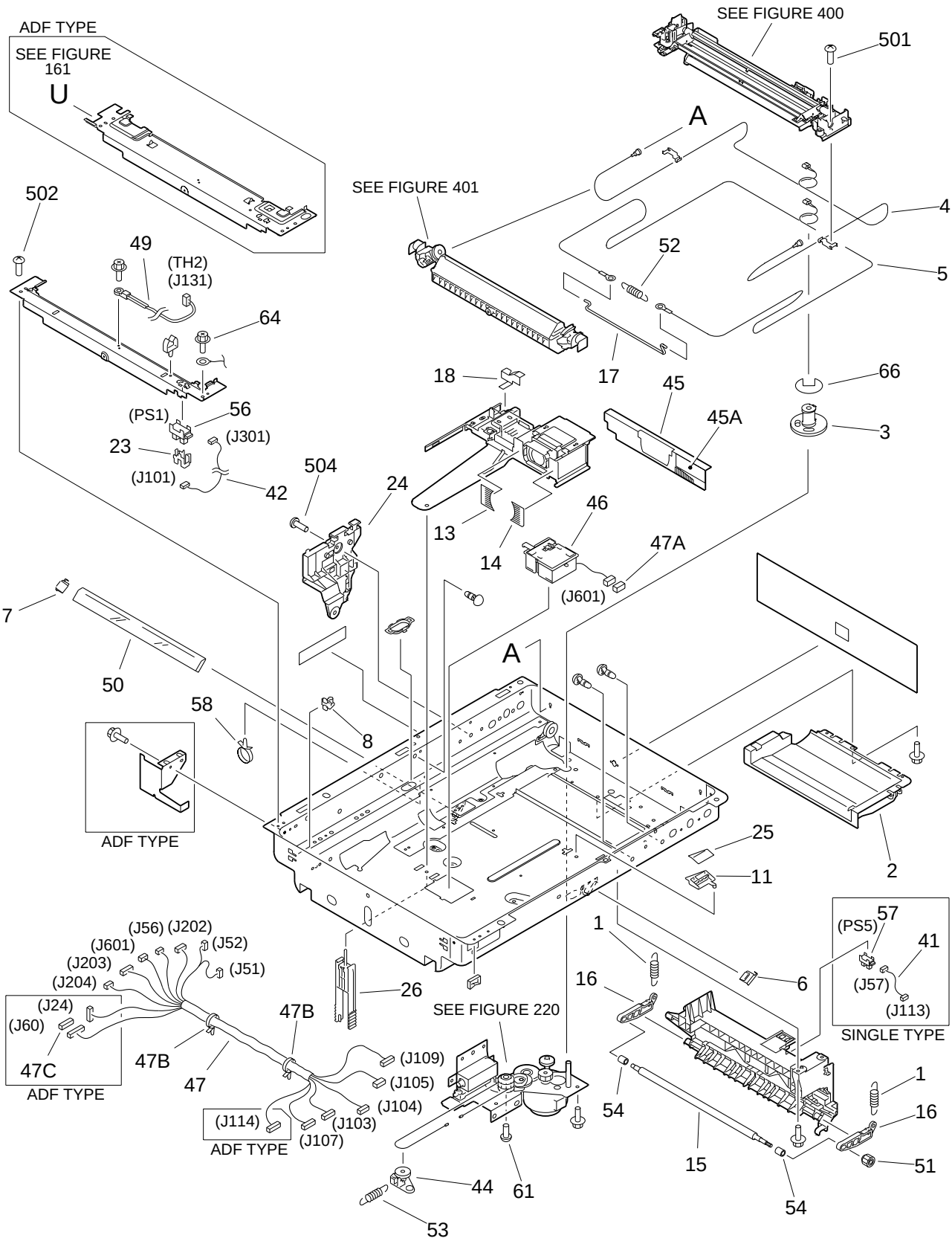

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 -	NPN		RF	UPPER MAIN BODY	
1	FA9 - 3066 - 000		2	SPRING, TENSION	
2	FB2 - 4603 - 000		1	PLATE, DUST-PROOF	
3	FB2 - 4610 - 000		1	PULLEY, DRIVE	
4	FB2 - 4611 - 000		1	WIRE, MIRROR DRIVE, 1	
5	FB2 - 4612 - 000		1	WIRE, MIRROR DRIVE, 2	
6	FB2 - 4613 - 000		1	RETAINER, MIRROR, 6, FRONT	
7	FB2 - 4614 - 000		1	RETAINER, MIRROR, 6, REAR	
8	FB2 - 4622 - 020		2	HOLDER, WIRE	
9	FB2 - 4627 - 000		1	SHEET, LIGHT-BLOCKING, 1	
10	FB2 - 4628 - 000		1	SHEET, LIGHT-BLOCKING, 2	
11	FB2 - 4629 - 020		1	HOLDER, LENS	
12	FB2 - 4691 - 000		1	PLATE, LINK	
13	FB2 - 4734 - 000		1	SHEET, 1	
14	FB2 - 4736 - 000		1	SHEET, 2	
15	FB2 - 4771 - 000		1	ROLLER, UPPER, REGISTRATION	
16	FB2 - 4773 - 000		2	ARM, REGISTRATION	
17	FB2 - 4792 - 000		1	HOOK, WIRE STOPPING	
18	FB2 - 4840 - 000		1	SHEET, 7	
19	FB2 - 4870 - 000		1	HOOK, REAR	
20	FB2 - 4875 - 000		1	PLATE, LEVER GROUNDING	
21	FB2 - 4877 - 000		1	SPRING, TORSION	
22	FB2 - 4906 - 020		1	KNOB, DENSITY CONTROL	100/220/240V
23	FB2 - 4942 - 000		1	GUIDE, SENSOR	
24	FB2 - 5057 - 000		1	PLATE, BLANK EXPOSURE	
25	FB2 - 5059 - 000		1	SHEET, 6	
26	FB2 - 5501 - 030		1	SCREW, M4X15	
27	FB3 - 0626 - 020		1	SUPPORT, PULLEY SHAFT	
28	FB3 - 0630 - 000		1	BELT, FAN	NON ADF TYPE
	FB5 - 0097 - 000		1	BELT, FAN	ADF TYPE

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 - 29	FB3 - 0632 - 020		1	SUPPORT, FAN, REAR	
30	FB3 - 0633 - 000		1	JOINT	
31	FB3 - 0639 - 020		1	PULLEY, FAN	
32	FB4 - 1194 - 000		1	HOOK, FRONT	
33	FB5 - 0086 - 000		1	HOLDER, FAN	
34	FB5 - 0088 - 000		1	BLOCK, HOOK, FRONT	
35	FB5 - 0089 - 000		1	PLATE, GROUNDING	
36	FB5 - 0090 - 000		1	BLOCK, HOOK, REAR	
37	FB5 - 0091 - 000		1	LEVER, SWITCH	
38	FB5 - 0092 - 000		1	ACTUATOR	
39	FB5 - 0093 - 000		1	SPRING, SWITCH	
40	FB5 - 0096 - 000		1	FAN, EXHAUST	
41	FF2 - 9787 - 000		1	CABLE, RIGHT RAIL SENSOR	SINGLE TYPE J57,113
42	FF3 - 3737 - 000		1	CABLE, HOME POSITION SENSOR	J101,301
43	FF3 - 3820 - 000		1	CABLE, GROUNDING	
44	FF5 - 2867 - 020		1	PULLEY, IDLER	
45	FF5 - 3716 - 000		1	SHEET, 2	
45A	FB2 - 5058 - 000		1	SHEET, 4	
46	FG6 - 3756 - 000		1	AE SENSOR PCB ASSEMBLY	J601
47	FG6 - 3789 - 000		1	DC UPPER FRAME CABLE	NON ADF TYPE J51,52,56,103-105 J107,109,202-204,601
	FG6 - 3788 - 000		1	DC UPPER FRAME CABLE	ADF TYPE J24,51,52,56,60 J103-105,107,109,114 J202-204,601
47A	VS1 - 5057 - 004		1	CONNECTOR, SNAP TIGHT	J601
47B	WT2 - 5041 - 000		3	CLAMP, CABLE	
47C	VS1 - 5057 - 008		1	CONNECTOR, SNAP TIGHT	ADF TYPE J60
48	FH6 - 1679 - 000		1	FAN, DC24V	FM1 J130
49	FH7 - 7510 - 000		1	THERMISTOR UNIT	TH2 J131
50	FN5 - 4146 - 000		1	MIRROR, 6	
51	FS5 - 0898 - 000		1	GEAR, 14T	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
101 - 52	FS5 - 2802 - 000		1	SPRING, TENSION	
53	FS5 - 2803 - 020		1	SPRING, TENSION	
54	FS5 - 6288 - 000		2	ROLLER	
55	WG8 - 5187 - 000		1	PHOTO-INTERRUPTER	PS2 J56
56	WG8 - 5362 - 000		1	PHOTO-INTERRUPTER	PS1 J301
57	WG8 - 5362 - 000		1	PHOTO-INTERRUPTER	SINGLE TYPE PS5 J57
58	WT2 - 5041 - 000		1	CLAMP, CABLE	
59	WT2 - 5041 - 000		2	CLAMP, CABLE	ADF TYPE
60	XA9 - 0187 - 000		2	SCREW,M3X6	
61	XA9 - 0650 - 000		1	SCREW,M3X6	
62	XA9 - 0760 - 000		15	SCREW,RS,M3X6	
63	XA9 - 0762 - 000		3	SCREW,RS,M3X8	
64	XA9 - 0794 - 000		4	SCREW,RS,M3X6	
65	XA9 - 0813 - 000		1	SCREW,RS,M3X8	
66	XD9 - 0136 - 000		1	RING,E	
501	XB1 - 2300 - 609		2	SCREW,MACH.,TRUSS HEAD,M3X6	
502	XB2 - 7300 - 607		4	SCREW,W/WASHER,M3X6	
503	XB4 - 6302 - 509		2	SCREW,TAPPING,PAN HEAD,M3X25	
504	XB4 - 7300 - 809		4	SCREW,TAPPING,TRUSS HEAD,M3X8	
505	XB4 - 7300 - 809		3	SCREW,TAPPING,TRUSS HEAD,M3X8	
506	XB4 - 7400 - 609		1	SCREW,TAPPING,TRUSS HEAD,M4X6	
507	XB4 - 7400 - 809		2	SCREW,TAPPING,TRUSS HEAD,M4X8	
508	XD2 - 2300 - 502		1	RING,TOOTHED LOCK	

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FIGURE 102 LOWER MAIN BODY(1/2)

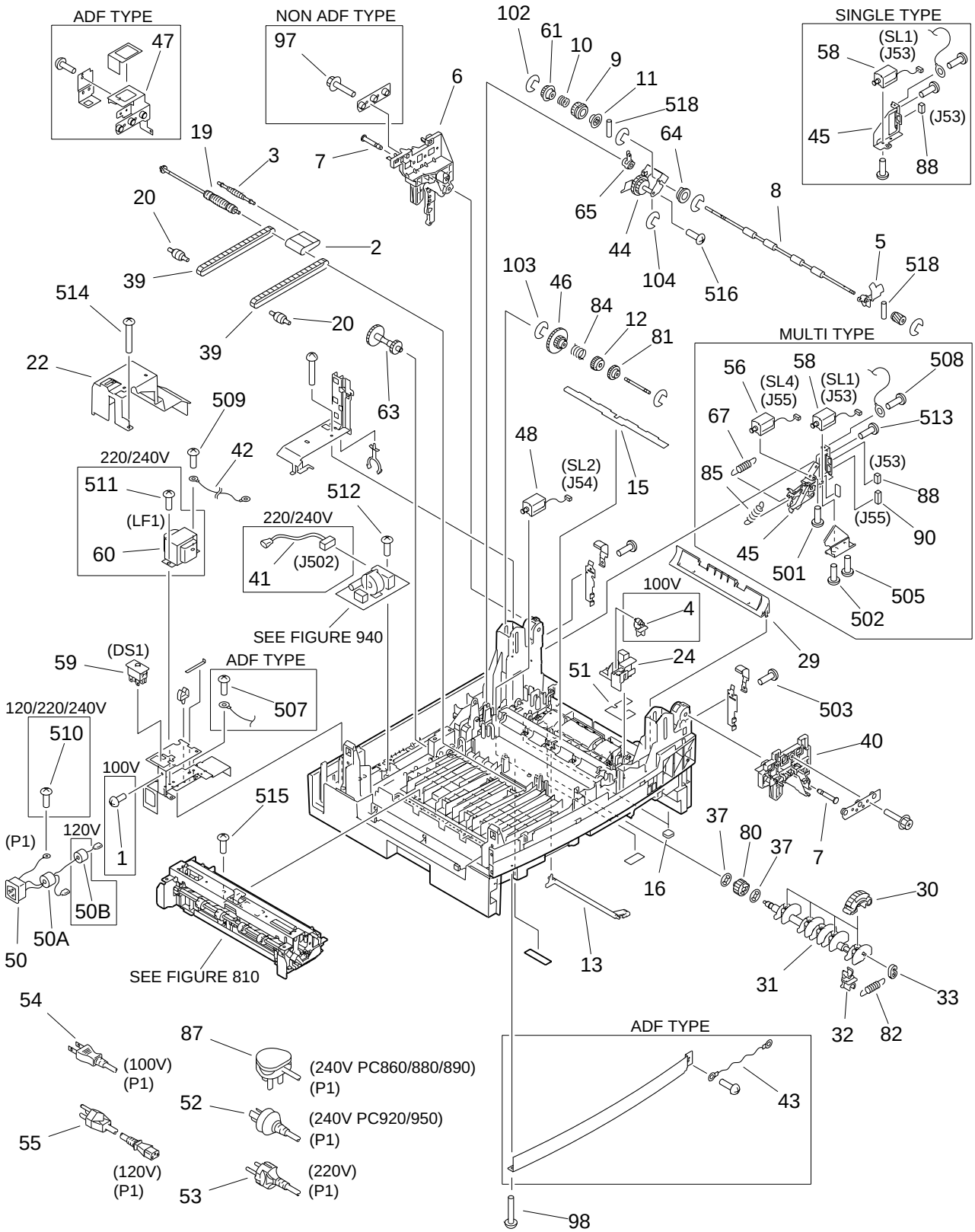

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FIGURE 102 LOWER MAIN BODY(2/2)

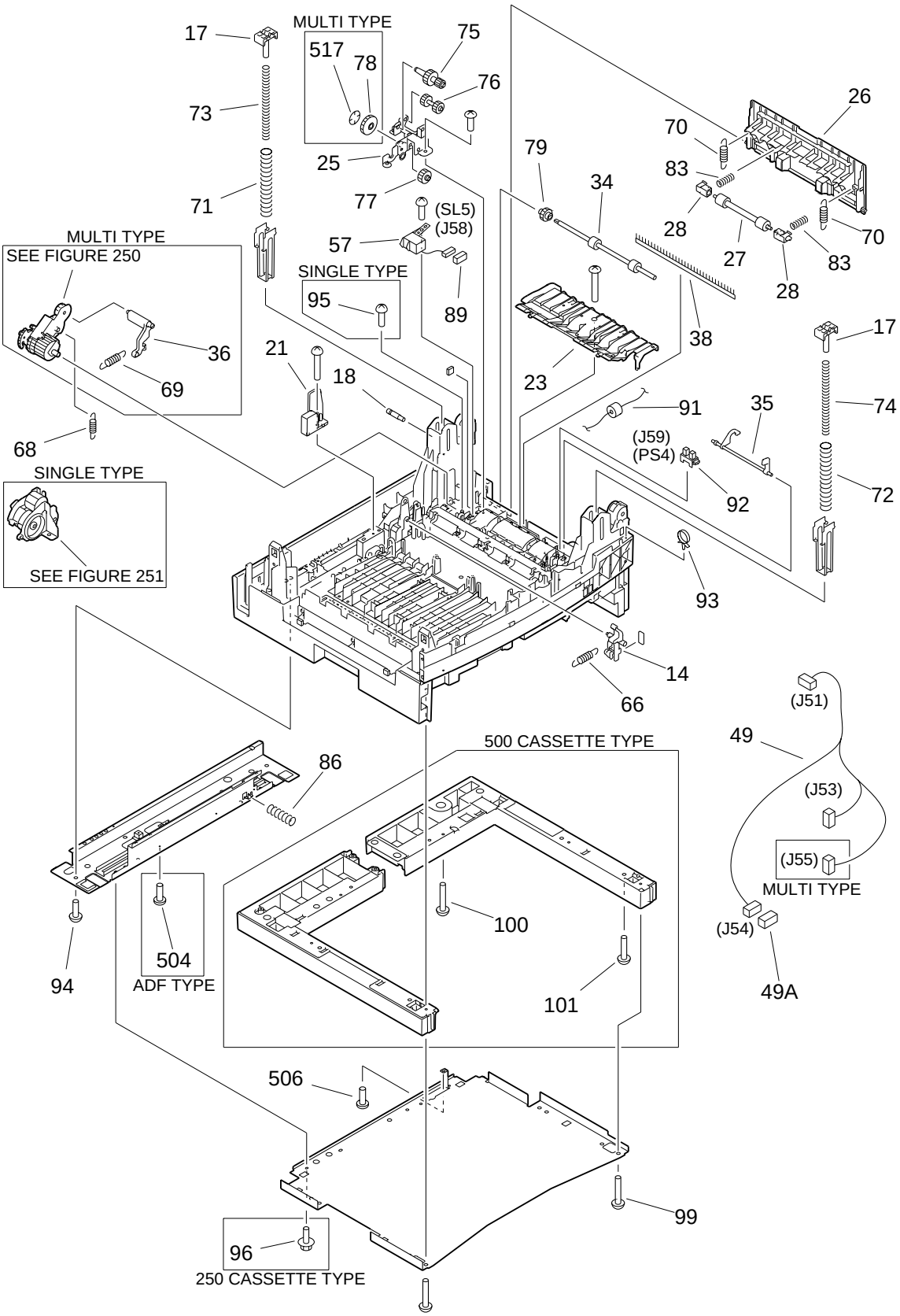

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 -	NPN		RF	LOWER MAIN BODY	
1	FA9 - 2568 - 000		1	SCREW,MACH.,TRUSS HEAD	100V
2	FB1 - 7267 - 000		1	BELT, PAPER FEED, 1	
3	FB1 - 7270 - 000		1	PULLEY, BELT, 1	
4	FB2 - 4781 - 000		1	LEVER, SENSOR, 2	100V
5	FB2 - 4782 - 000		1	LEVER, SENSOR, 1	
6	FB2 - 4929 - 000		1	MOUNT, HINGE, REAR	
7	FB2 - 4930 - 000		2	PIN, HINGE	
8	FB2 - 5161 - 030		1	ROLLER, LOWER	
9	FB2 - 5162 - 000		1	RING, RATCHET	
10	FB2 - 5163 - 000		1	SPRING, CLUTCH	
11	FB2 - 5164 - 000		1	DRUM, CLUTCH	
12	FB2 - 5183 - 000		1	RING, RATCHET	MULTI TYPE
	FB2 - 5266 - 000		1	RING, RATCHET	SINGLE TYPE
13	FB2 - 5221 - 020		1	LEVER, SENSOR	
14	FB2 - 5222 - 000		1	LEVER, CLUTCH	
15	FB2 - 5223 - 000		1	SHEET, GUIDE	
16	FB2 - 5303 - 000		2	FOOT, RUBBER	
17	FB2 - 5304 - 000		2	BLOCK, HINGE SLIDING	
18	FB2 - 5305 - 000		1	PIN, SLIDE, 1	
19	FB2 - 5309 - 000		1	PULLEY, BELT, 2	
20	FB2 - 5310 - 000		2	PULLEY, BELT, 3	
21	FB3 - 0733 - 000		1	BLOCK, SHUTTER RELEASE	
22	FB4 - 9803 - 000		1	COVER, AC POWER SUPPLY	100V
	FB4 - 9802 - 000		1	COVER, AC POWER SUPPLY	120/220/240V
23	FB4 - 9808 - 000		1	COVER, FEEDER	
24	FB4 - 9810 - 000		1	COVER, SENSOR PCB	
25	FB4 - 9811 - 000		1	HOLDER, GEAR	
26	FB4 - 9812 - 000		1	COVER, U-TURN	
27	FB4 - 9813 - 000		1	ROLLER	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 - 28	FB4 - 9814 - 000		2	HOLDER, ROLLER	
29	FB4 - 9815 - 000		1	GUIDE, U-TURN	
30	FB4 - 9817 - 000		4	ROLLER, PICK-UP	
31	FB4 - 9818 - 000		1	SHAFT, PICK-UP ROLLER	
32	FB4 - 9819 - 000		1	HOLDER, PICK-UP SHAFT	
33	FB4 - 9820 - 000		1	COLLAR, SPRING	
34	FB4 - 9821 - 000		1	ROLLER, FEEDER	
35	FB4 - 9822 - 000		1	LEVER, RETRY	
36	FB4 - 9823 - 000		1	ARM, PAPER PICK-UP	MULTI TYPE
37	FB4 - 9824 - 000		2	FLANGE	
38	FB4 - 9830 - 000		1	ABSORBER, ERASE NOISE	
39	FB4 - 9881 - 000		2	BELT, PAPER FEED, 2	
40	FB4 - 9908 - 000		1	MOUNT, HINGE, FRONT	
41	FF3 - 3736 - 000		1	CABLE, INPUT	220/240V J502
42	FF3 - 3740 - 000		1	CABLE, GROUNDING	
43	FF3 - 3845 - 000		1	CABLE, GROUNDING	ADF TYPE
44	FF5 - 2872 - 000		1	PLATE, REGIST SWING	
45	FF5 - 2873 - 030		1	MOUNT, SOLENOID	MULTI TYPE
	FB2 - 5276 - 000		1	MOUNT, SOLENOID	SINGLE TYPE
46	FF5 - 3714 - 000		1	GEAR, 17T/80T	MULTI TYPE
	FF5 - 3715 - 000		1	GEAR, 30T/80T	SINGLE TYPE
47	FF5 - 3922 - 000		1	PLATE, HINGE STOP, REAR	ADF TYPE
48	FF9 - 1505 - 000		1	SOLENOID	SL2 J54
49	FG6 - 3757 - 000		1	CABLE, MULTI DC	MULTI TYPE J51,53,54,55
	FG6 - 3758 - 000		1	CABLE, DC, SINGLE	SINGLE TYPE J51,53,54
49A	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT	J54
50	FG6 - 3762 - 000		1	CABLE, AC SOCKET	100V P1
	FG6 - 3764 - 000		1	CABLE, AC SOCKET	120V P1
	FG6 - 3763 - 000		1	CABLE, AC SOCKET	220/240V P1
50A	WE8 - 0054 - 000		1	FERRITE CORE	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 - 50B	WE8 - 5705 - 000		1	FERRITE CORE	120V
51	FG6 - 4065 - 000		1	SENSOR PCB ASSEMBLY	100V
	FG6 - 4028 - 000		1	SENSOR PCB ASSEMBLY	120/220/240V
52	FH2 - 5276 - 030		1	CORD, POWER SUPPLY	240V PC920/950 P1
53	FH2 - 5761 - 020		1	CORD, POWER	220V P1
54	FH2 - 6577 - 000		1	CORD, POWER SUPPLY	100V P1
55	FH2 - 6578 - 000		1	CORD, POWER SUPPLY	120V P1
56	FH7 - 5631 - 000		1	SOLENOID, DC24V	MULTI TYPE SL4 J55
57	FH7 - 5893 - 000		1	SOLENOID	SL5 J58
58	FH7 - 5967 - 000		1	SOLENOID, DC24V	SL1 J53
59	FH7 - 6216 - 000		1	SWITCH, INTERLOCK	DS1
60	FH7 - 9315 - 000		1	INDUCTOR	220/240V LF1
61	FS5 - 0883 - 000		1	GEAR, 34T	
62	FS5 - 0885 - 000		1	GEAR, 14T	
63	FS5 - 0913 - 030		1	GEAR, 17T/18T	
64	FS5 - 1438 - 000		1	BUSHING	
65	FS5 - 1440 - 000		1	BUSHING, REGISTRATION, REAR	
66	FS5 - 2767 - 000		1	SPRING, TENSION	
67	FS5 - 2771 - 000		1	SPRING, TENSION	MULTI TYPE
68	FS5 - 2772 - 000		1	SPRING, TENSION	
69	FS5 - 2773 - 000		1	SPRING, TENSION	MULTI TYPE
70	FS5 - 2783 - 000		2	SPRING, TENSION	
71	FS5 - 2804 - 000		1	SPRING, COMPRESSION	
72	FS5 - 2805 - 000		1	SPRING, COMPRESSION	
73	FS5 - 2806 - 000		1	SPRING, COMPRESSION	
74	FS5 - 2806 - 000		1	SPRING, COMPRESSION	ADF TYPE
75	FS7 - 0431 - 000		1	GEAR, 14T/19T	MULTI TYPE
	FS7 - 0437 - 000		1	GEAR, 14T/19T	SINGLE TYPE
76	FS7 - 0432 - 000		1	GEAR, 14T	
77	FS7 - 0433 - 000		1	GEAR, 23T	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 - 78	FS7 - 0434 - 000		1	GEAR, 26T	MULTI TYPE
79	FS7 - 0435 - 000		1	GEAR, 16T	
80	FS7 - 0436 - 000		1	GEAR, 25T	
81	FS7 - 0438 - 000		1	GEAR, 25T	MULTI TYPE
	FS7 - 0439 - 000		1	GEAR, 24T	SINGLE TYPE
82	FS7 - 2183 - 000		1	SPRING, TENSION	
83	FS7 - 2184 - 000		2	SPRING, COMPRESSION	
84	FS7 - 2185 - 000		1	SPRING, CLUTCH	
85	FS7 - 2186 - 000		1	SPRING, TENSION	MULTI TYPE
86	FS7 - 2190 - 000		1	SPRING, COMPRESSION	
87	RH2 - 5015 - 050		1	CORD, POWER SUPPLY	240V PC860/880 PC890 P1
88	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT	J53
89	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT	J58
90	VS1 - 5057 - 003		1	CONNECTOR, SNAP TIGHT	MULTI TYPE J55
91	WE8 - 5705 - 000		1	FERRITE CORE	100/220/240V
	WE8 - 0027 - 000		1	FERRITE CORE	120V
92	WG8 - 5362 - 000		1	PHOTO-INTERRUPTER	PS4 J59
93	WT2 - 5041 - 000		1	CLAMP, CABLE	
94	XA9 - 0591 - 000		6	SCREW,M3X8	
95	XA9 - 0591 - 000		1	SCREW,M3X8	SINGLE TYPE
96	XA9 - 0760 - 000		2	SCREW,RS,M3X6	250 CASSETTE TYPE
97	XA9 - 0763 - 000		6	SCREW,RS,M3X11	
98	XA9 - 0772 - 000		13	SCREW,P,M3X10	
99	XA9 - 0773 - 000		11	SCREW,P,M4X12	
100	XA9 - 0773 - 000		2	SCREW,P,M4X12	500 CASSETTE TYPE
101	XA9 - 0976 - 000		4	SCREW,P,M4X16	500 CASSETTE TYPE
102	XD9 - 0134 - 000		4	RING,E	
103	XD9 - 0134 - 000		2	RING,E	
104	XD9 - 0136 - 000		1	RING,E	
501	XB1 - 2300 - 409		1	SCREW,MACH.,TRUSS HEAD,M3X4	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
102 - 502	XB1 - 2300 - 409		1	SCREW,MACH.,TRUSS HEAD,M3X4	MULTI TYPE
503	XB1 - 2300 - 509		2	SCREW,MACH.,TRUSS HEAD,M3X5	
504	XB1 - 2300 - 809		2	SCREW,MACH.,TRUSS HEAD,M3X8	ADF TYPE
505	XB2 - 7300 - 607		1	SCREW,W/WASHER,M3X6	
506	XB2 - 7300 - 607		1	SCREW,W/WASHER,M3X6	
507	XB2 - 7300 - 607		3	SCREW,W/WASHER,M3X6	ADF TYPE
508	XB2 - 7400 - 607		1	SCREW,W/WASHER,M4X6	
509	XB2 - 7400 - 607		1	SCREW,W/WASHER,M4X6	
510	XB2 - 7400 - 607		1	SCREW,W/WASHER,M4X6	120/220/240V
511	XB2 - 7400 - 607		1	SCREW,W/WASHER,M4X6	220/240V
512	XB2 - 8300 - 607		1	SCREW,W/WASHER,M3X6	
513	XB4 - 7300 - 809		3	SCREW,TAPPING,TRUSS HEAD,M3X8	
514	XB4 - 7301 - 007		2	SCREW,TAPPING,TRUSS HEAD,M3X10	
515	XB4 - 7400 - 809		1	SCREW,TAPPING,TRUSS HEAD,M4X8	
516	XB6 - 7300 - 609		1	SCREW,TP,M3X6	
517	XD2 - 2300 - 402		1	RING,TOOTHED LOCK	MULTI TYPE
518	XD3 - 2160 - 062		2	PIN,DOWEL	

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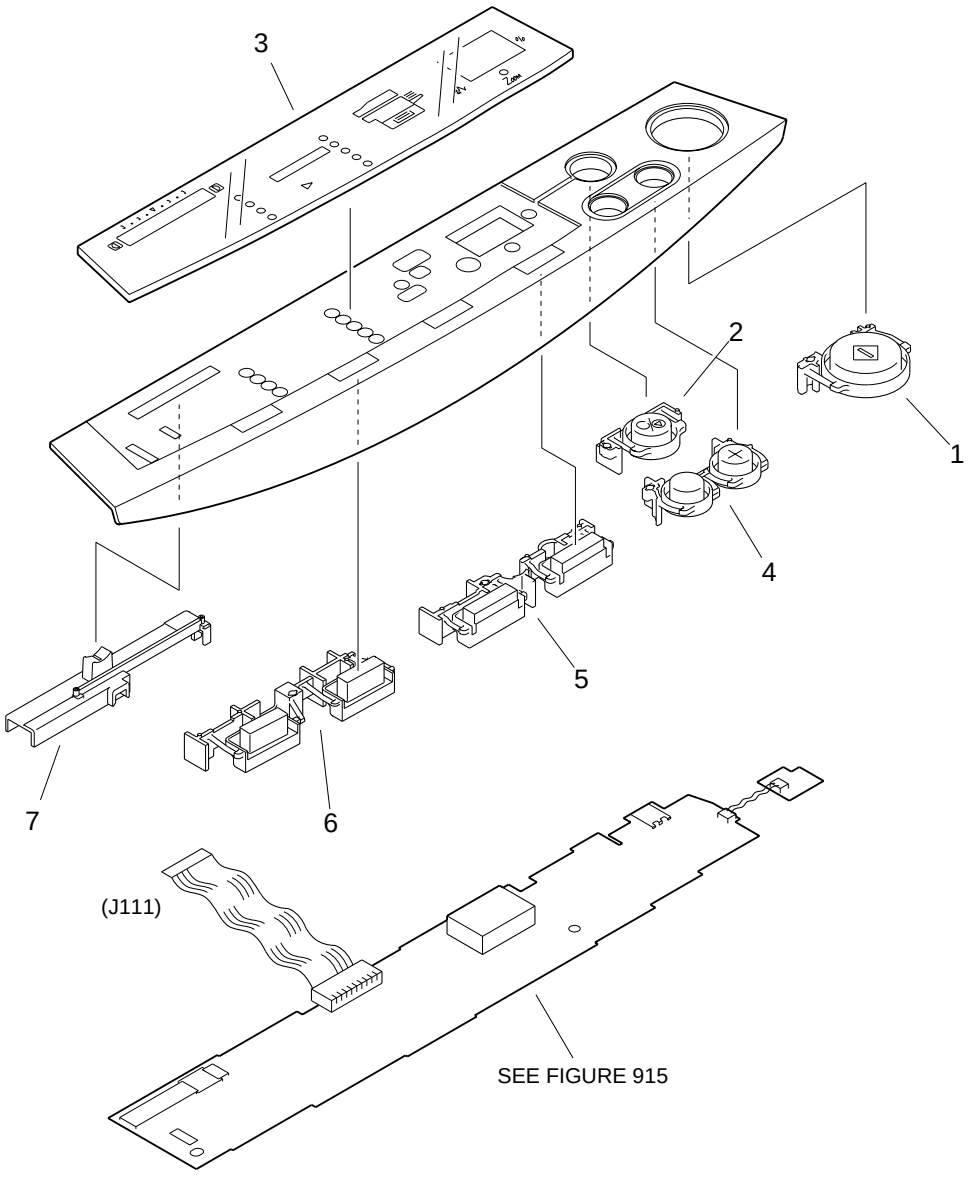
FIGURE 130 CONTROL PANEL ASSEMBLY



NOTE:This assembly includes the assembly shown in Figure 915.

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
130 -	FG6 - 4041 - 00S		1	CONTROL PANEL ASSEMBLY	PC860 SEE NOTE
	FG6 - 4039 - 00S		1	CONTROL PANEL ASSEMBLY	PC880 SEE NOTE
	FG6 - 4038 - 00S		1	CONTROL PANEL ASSEMBLY	PC890 SEE NOTE
	FG6 - 4063 - 000		1	CONTROL PANEL ASSEMBLY	PC920 120V SEE NOTE
	FG6 - 4040 - 000		1	CONTROL PANEL ASSEMBLY	PC920 220/240V SEE NOTE
	FG6 - 4062 - 000		1	CONTROL PANEL ASSEMBLY	PC921 SEE NOTE
	FG6 - 4035 - 000		1	CONTROL PANEL ASSEMBLY	PC940 SEE NOTE
	FG6 - 4037 - 000		1	CONTROL PANEL ASSEMBLY	PC941 SEE NOTE
	FG6 - 4042 - 000		1	CONTROL PANEL ASSEMBLY	PC950 100V SEE NOTE
	FG6 - 4031 - 000		1	CONTROL PANEL ASSEMBLY	PC950 120V SEE NOTE
	FG6 - 4043 - 000		1	CONTROL PANEL ASSEMBLY	PC950 220/240V SEE NOTE
	FG6 - 4033 - 000		1	CONTROL PANEL ASSEMBLY	PC960 SEE NOTE
	FG6 - 4030 - 000		1	CONTROL PANEL ASSEMBLY	PC980 SEE NOTE
	FG6 - 4032 - 000		1	CONTROL PANEL ASSEMBLY	PC981 SEE NOTE
1	FB5 - 0123 - 000		1	KEY TOP, START	
2	FB5 - 0124 - 000		1	KEY TOP, CLEAR/STOP	
3	FB5 - 0143 - 00S		1	PANEL, CLEAR	PC860
	FB5 - 0142 - 00S		1	PANEL, CLEAR	PC880
	FB5 - 0141 - 00S		1	PANEL, CLEAR	PC890
	FB5 - 1874 - 000		1	PANEL, CLEAR	PC920 120V
	FB5 - 1869 - 000		1	PANEL, CLEAR	PC920 220/240V
	FB5 - 1873 - 000		1	PANEL, CLEAR	PC921
	FB5 - 0138 - 000		1	PANEL, CLEAR	PC940
	FB5 - 0140 - 000		1	PANEL, CLEAR	PC941
	FB5 - 0144 - 000		1	PANEL, CLEAR	PC950 100V
	FB5 - 0135 - 000		1	PANEL, CLEAR	PC950 120V
	FB5 - 1868 - 000		1	PANEL, CLEAR	PC950 220/240V
	FB5 - 0137 - 000		1	PANEL, CLEAR	PC960
	FB5 - 0122 - 000		1	PANEL, CLEAR	PC980
	FB5 - 0136 - 000		1	PANEL, CLEAR	PC981

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
130 - 4	FB5 - 0146 - 000		1	KEY TOP, NUMBER	PC860/940 PC920 120V
	FB5 - 0125 - 000		1	KEY TOP, NUMBER	PC880/890/980 PC950 100/220/240V
	FB5 - 0145 - 000		1	KEY TOP, NUMBER	PC921/941/981 PC920 220/240V
	FB5 - 0147 - 000		1	KEY TOP, NUMBER	PC960 PC950 120V
5	FB5 - 0150 - 000		1	KEY TOP, FUNCTION, 1	PC860/940 PC920 120V
	FB5 - 0126 - 000		1	KEY TOP, FUNCTION, 1	PC880/890/980 PC950 100/220/240V
	FB5 - 0152 - 000		1	KEY TOP, FUNCTION, 1	PC920 220/240V
	FB5 - 0148 - 000		1	KEY TOP, FUNCTION, 1	PC950 120V
	FB5 - 0151 - 000		1	KEY TOP, FUNCTION, 1	PC960
	FB5 - 0149 - 000		1	KEY TOP, FUNCTION, 1	PC981
6	FB5 - 0155 - 000		1	KEY TOP, FUNCTION, 2	PC860/940 PC920 120V
	FB5 - 0127 - 000		1	KEY TOP, FUNCTION, 2	PC880/890/980 PC950 100/220/240V
	FB5 - 0154 - 000		1	KEY TOP, FUNCTION, 2	PC921/941/981 PC920 220/240V
	FB5 - 0156 - 000		1	KEY TOP, FUNCTION, 2	PC960 PC950 120V
7	FB5 - 1851 - 000		1	KNOB, DENSITY CONTROL	PC860/940 PC920 120V
	FB5 - 0128 - 000		1	KNOB, DENSITY CONTROL	PC880/890/980 PC950 100/220/240V
	FB5 - 1850 - 000		1	KNOB, DENSITY CONTROL	PC921/941/981 PC920 220/240V
	FB5 - 1852 - 000		1	KNOB, DENSITY CONTROL	PC960 PC950 120V

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FIGURE 160 COPYBOARD COVER ASSEMBLY (NON ADF TYPE)

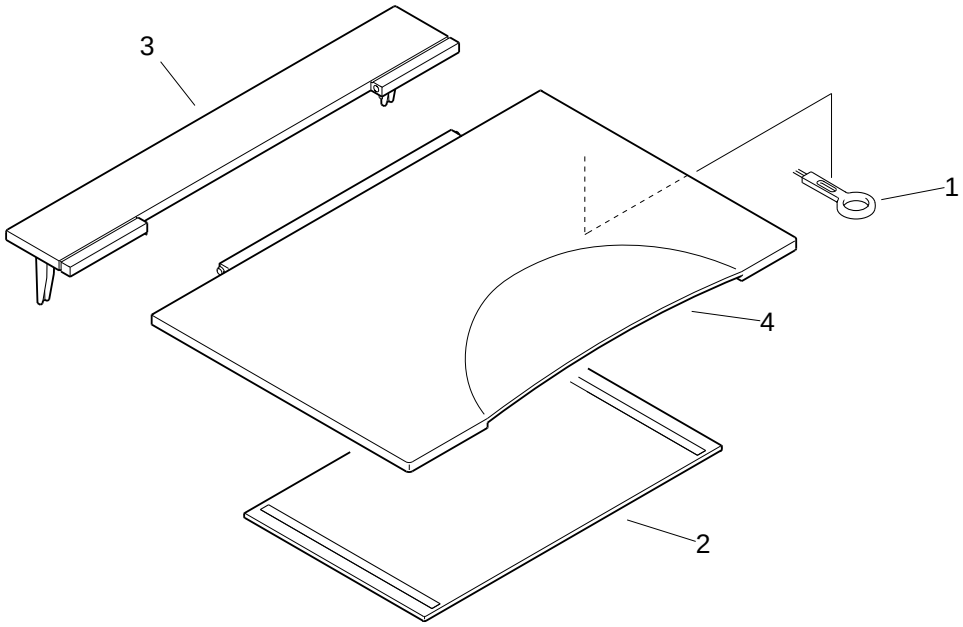

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
160 -	FG6 - 3737 - 000		1	COPYBOARD COVER ASSEMBLY	NON ADF TYPE
1	FB1 - 0733 - 000		1	BRUSH, CLEANING	
2	FB1 - 8870 - 000		1	SHEET, COPYBOARD	
3	FB2 - 5424 - 000		1	COVER, COPYBOARD, SMALL	
4	FB4 - 9887 - 000		1	COVER, COPYBOARD, LARGE	

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FIGURE 161 ADF ASSEMBLY (ADF TYPE)(1/2)

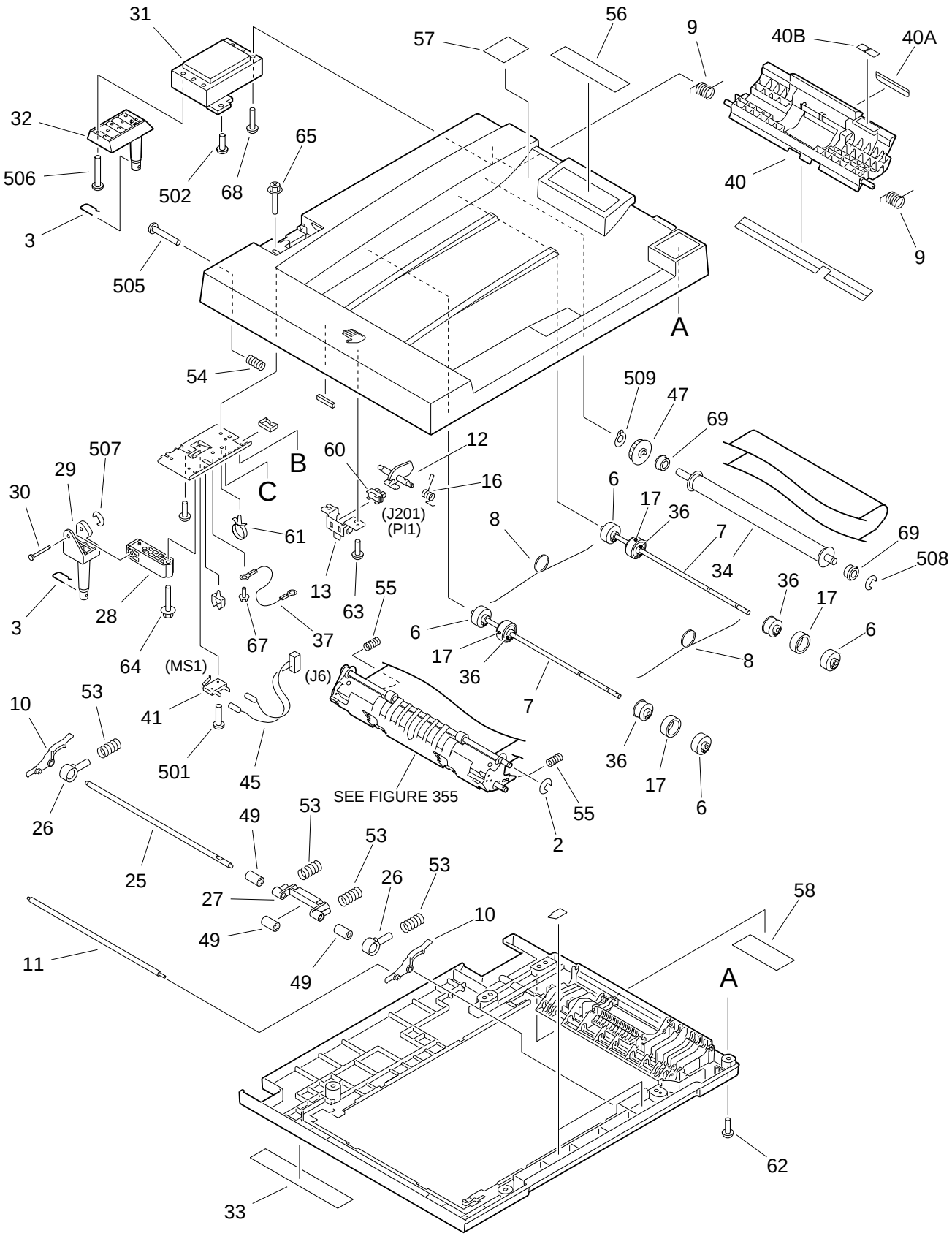

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FIGURE 161 ADF ASSEMBLY (ADF TYPE)(2/2)

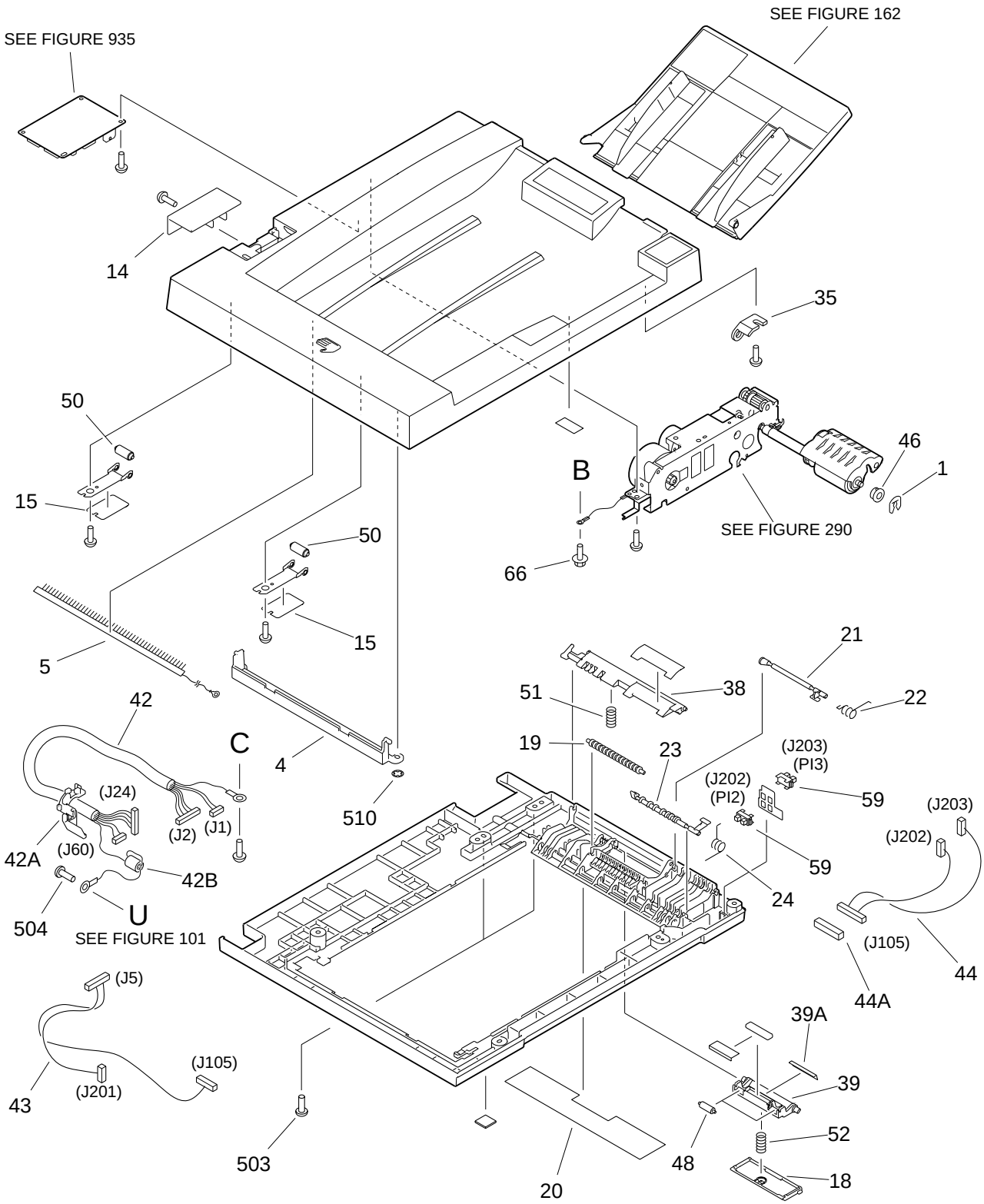

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
161 -	NPN		RF	ADF ASSEMBLY	ADF TYPE
1	FA5 - 2864 - 020		1	RING, RETAINING	
2	FA9 - 2873 - 000		1	RING, E	
3	FB3 - 0829 - 000		2	PIN, DF SUPPORT	
4	FB3 - 3311 - 000		1	CROSSMEMBER, DELIVERY	
5	FB3 - 3312 - 000		1	ELIMINATOR, STATIC CHARGE	
6	FB3 - 3314 - 020		4	ROLLER, BELT, 1	
7	FB3 - 3315 - 020		2	SHAFT, BELT	
8	FB3 - 3316 - 000		2	SPRING, TORSION	
9	FB3 - 3321 - 000		2	SPRING, TORSION	
10	FB3 - 3322 - 000		2	LINK, RELEASE	
11	FB3 - 3323 - 000		1	SHAFT, TENSION	
12	FB3 - 3324 - 000		1	FLAG, SENSOR	
13	FB3 - 3325 - 000		1	MOUNT, SENSOR	
14	FB3 - 3326 - 000		1	COVER, POCKET	
15	FB3 - 3329 - 000		2	SHEET, 3	
16	FB3 - 3330 - 000		1	SPRING, TORSION	
17	FB3 - 3332 - 000		4	ROLLER, RUBBER	
18	FB3 - 3335 - 000		1	COVER, PAD	
19	FB3 - 3336 - 000		1	ROLLER, GUIDE	
20	FB3 - 3338 - 000		1	SHEET, 2	
21	FB3 - 3342 - 000		1	FLAG, SENSOR, 1	
22	FB3 - 3343 - 000		1	SPRING, TORSION	
23	FB3 - 3344 - 000		1	FLAG, SENSOR, 2	
24	FB3 - 3345 - 000		1	SPRING, TORSION	
25	FB3 - 3346 - 000		1	SHAFT, REGISTRATION	
26	FB3 - 3347 - 000		2	LINK, PRESSURE	
27	FB3 - 3348 - 000		1	LEVER, RELEASE	
28	FB3 - 3356 - 000		1	HINGE, LEFT, UPPER	
29	FB3 - 3357 - 020		1	HINGE, LEFT, LOWER	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
161 - 30	FB3 - 3358 - 000		1	SHAFT, LEFT HINGE	
31	FB3 - 3360 - 030		1	HINGE, FREE STOP	
32	FB3 - 3361 - 000		1	FOOT, HINGE, RIGHT	
33	FB3 - 3364 - 000		1	LABEL, OPERATION, 4	
34	FB3 - 3365 - 000		1	ROLLER, DRIVE	
35	FB3 - 3401 - 000		1	BUSHING, LEVER	
36	FB3 - 3402 - 020		4	ROLLER, BELT, 2	
37	FF3 - 1070 - 000		1	CABLE, GROUNDING	
38	FF5 - 4677 - 000		1	PLATE, PAPER LIFTER	
39	FF5 - 4679 - 020		1	FLAPPER	
39A	FB3 - 3350 - 000		1	SHEET, INLET	
40	FF5 - 6753 - 000		1	HANDLE, UPPER	
40A	FB4 - 1154 - 000		1	SHEET, INLET	
40B	FS6 - 8091 - 000		1	LABEL, "PUSH"	
41	FF5 - 6761 - 000		1	MICROSWITCH	MS1
42	FG2 - 7467 - 000		1	CABLE, INTERFACE	J1,2,24,60
42A	FB3 - 0835 - 000		1	GUIDE, CABLE	
42B	WE8 - 0098 - 000		1	FERRITE CORE	
43	FG2 - 7469 - 000		1	CABLE, SENSOR, 1	J5,105,201
44	FG2 - 7470 - 000		1	CABLE, SENSOR, 2	J105,202,203
44A	VS1 - 5057 - 006		1	CONNECTOR, SNAP TIGHT	J105
45	FG2 - 7471 - 000		1	CABLE, MICROSWITCH	J6
46	FS1 - 1190 - 000		1	BUSHING	
47	FS5 - 3458 - 000		1	PULLEY, 44T	
48	FS5 - 6453 - 000		2	ROLLER, DAMPER	
49	FS5 - 6454 - 000		3	ROLLER, REGISTRATION	
50	FS5 - 6455 - 000		2	ROLLER, 2	
51	FS6 - 2369 - 000		1	SPRING, COMPRESSION	
52	FS6 - 2370 - 000		1	SPRING, COMPRESSION	
53	FS6 - 2371 - 000		4	SPRING, COMPRESSION	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
161 - 54	FS6 - 2373 - 000		1	SPRING, COMPRESSION	
55	FS6 - 2374 - 000		2	SPRING, COMPRESSION	
56	FS6 - 8089 - 000		1	LABEL, OPERATION, 1	
57	FS6 - 8948 - 000		1	LABEL, OPERATION, 2	
58	FS6 - 8949 - 000		1	LABEL, OPERATION, 3	
59	WG8 - 5206 - 010		2	PHOTO-INTERRUPTER	PI2,3 J202,203
60	WG8 - 5309 - 000		1	PHOTO-INTERRUPTER	PI1 J201
61	WT2 - 5041 - 000		1	CLAMP, CABLE	
62	XA9 - 0605 - 000		12	SCREW,M4X8	
63	XA9 - 0605 - 000		4	SCREW,M4X8	
64	XA9 - 0632 - 000		2	SCREW,RS,M4X26	
65	XA9 - 0632 - 000		1	SCREW,RS,M4X26	
66	XA9 - 0633 - 000		1	SCREW,RS,M4X8	
67	XA9 - 0633 - 000		1	SCREW,RS,M4X8	
68	XA9 - 0976 - 000		4	SCREW,P,M4X16	
69	XG9 - 0237 - 000		2	BEARING, BALL	
501	XB1 - 2301 - 209		1	SCREW,MACH.,TRUSS HEAD,M3X12	
502	XB1 - 2400 - 609		2	SCREW,MACH.,TRUSS HEAD,M4X6	
503	XB1 - 2400 - 609		2	SCREW,MACH.,TRUSS HEAD,M4X6	
504	XB2 - 6300 - 607		1	SCREW,W/WASHER,M3X6	
505	XB4 - 7301 - 209		5	SCREW,TAPPING,TRUSS HEAD,M3X12	
506	XB6 - 7301 - 609		1	SCREW,TP,M3X16	
507	XD2 - 1100 - 322		1	RING,E	
508	XD2 - 1100 - 642		1	RING,E	
509	XD2 - 2100 - 802		1	RING,GRIP	
510	XD2 - 2300 - 502		2	RING,TOOTHED LOCK	

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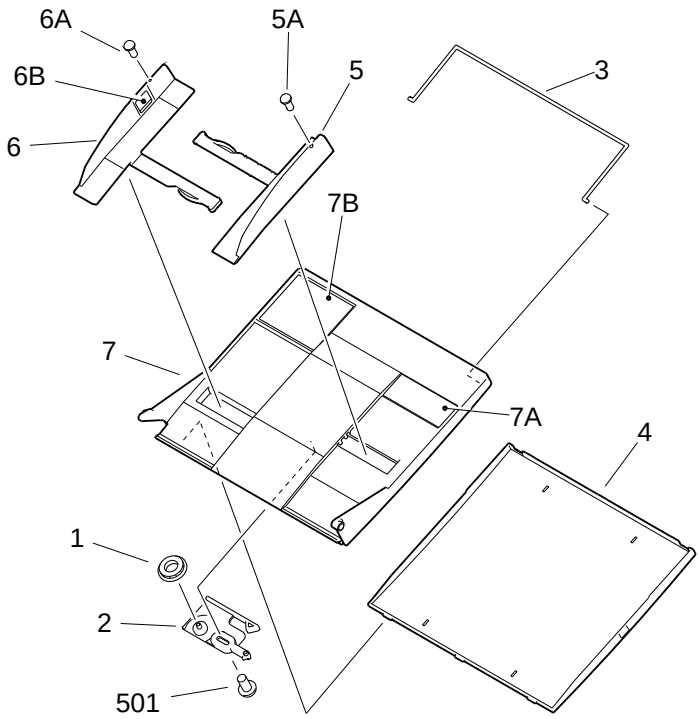
FIGURE 162 ADF TRAY ASSEMBLY (ADF TYPE)



NOTE:This assembly does not include the parts shown with key No.3 and 4.

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
162 -	FG5 - 6418 - 000		1	ADF TRAY ASSEMBLY	ADF TYPE
1	FB3 - 3395 - 000		1	GEAR, 20T	
2	FB3 - 3396 - 000		1	PLATE, SLIDE	
3	FB3 - 3397 - 000		1	TRAY, SUB	SEE NOTE
4	FB4 - 1159 - 000		1	COVER, LOWER	SEE NOTE
5	FF5 - 6756 - 000		1	GUIDE, SLIDE, FRONT	
5 A	FB3 - 3392 - 000		1	RUBBER, STOP	
6	FF5 - 6757 - 000		1	GUIDE, SLIDE, REAR	
6 A	FB3 - 3392 - 000		1	RUBBER, STOP	
6 B	FS6 - 8196 - 000		1	LABEL, CARD HEIGHT	
7	FF5 - 6758 - 000		1	TRAY, DOCUMENT	
7 A	FS6 - 8197 - 000		1	LABEL, SIZE	
7 B	FS6 - 8950 - 000		1	LABEL, "DOCUMENT SET OPERATE"	
5 0 1	XB1 - 2400 - 609		1	SCREW,MACH.,TRUSS HEAD,M4X6	

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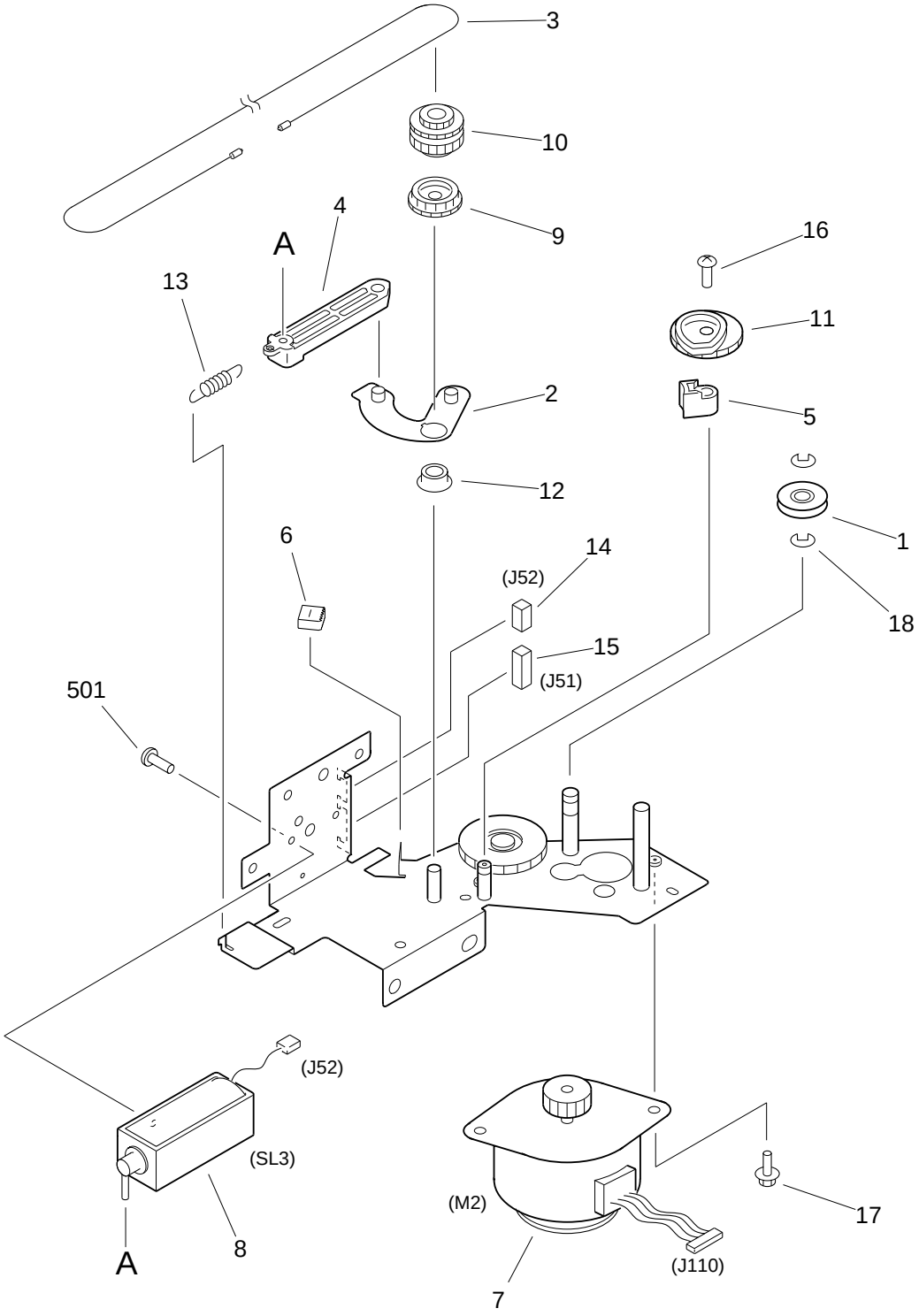
FIGURE 220 SCANNER DRIVE ASSEMBLY



NOTE:This assembly does not include the parts shown with key No.3,5,11 and 16.

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
220 -	FG6 - 3733 - 000		1	SCANNER DRIVE ASSEMBLY	
1	FB2 - 4616 - 000		1	PULLEY	
2	FB2 - 4701 - 020		1	ARM, SOLENOID, 1	
3	FB2 - 4702 - 000		1	WIRE, SCANNER DRIVE	SEE NOTE
4	FB2 - 4703 - 000		1	ARM, SOLENOID, B	
5	FB2 - 4704 - 000		1	BLOCK, WIRE STOP	SEE NOTE
6	FB2 - 4705 - 000		1	RUBBER, STOP	
7	FH6 - 1079 - 000		1	MOTOR, STEPPING	M2 J110
8	FH7 - 5565 - 030		1	SOLENOID	SL3 J52
9	FS5 - 0917 - 000		1	GEAR, 45T	
10	FS5 - 0918 - 000		1	GEAR, 24T/39T	
11	FS5 - 0919 - 000		1	GEAR, 53T	SEE NOTE
12	FS5 - 1439 - 000		1	BUSHING	
13	FS5 - 2821 - 000		1	SPRING, TENSION	
14	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT	J52
15	VS1 - 5057 - 006		1	CONNECTOR, SNAP TIGHT	J51
16	XA9 - 0187 - 000		1	SCREW,M3X6	SEE NOTE
17	XA9 - 0760 - 000		2	SCREW,RS,M3X6	
18	XD9 - 0136 - 000		2	RING,E	
501	XB1 - 2300 - 409		2	SCREW,MACH.,TRUSS HEAD,M3X4	

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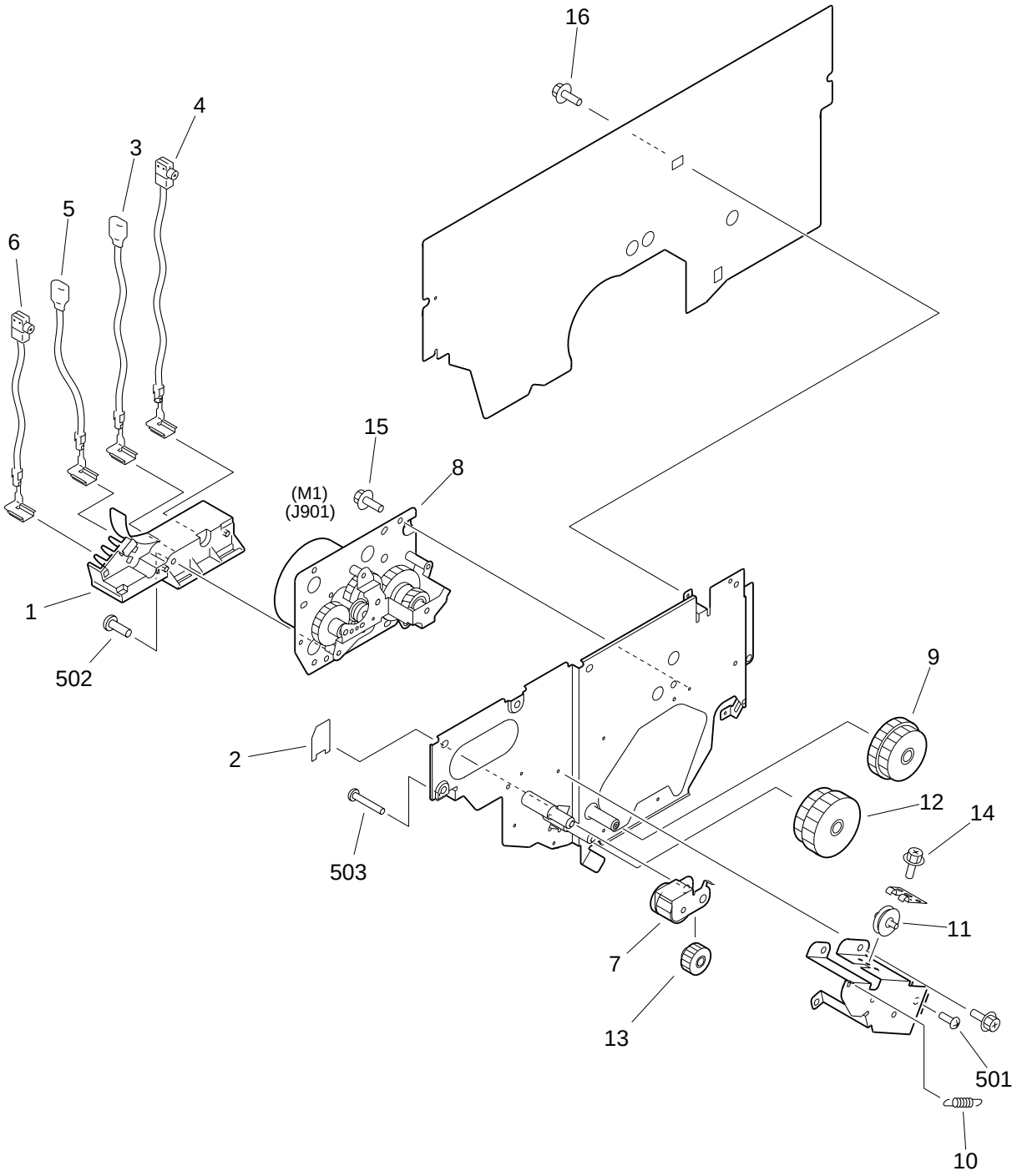
FIGURE 230 MAIN DRIVE ASSEMBLY



NOTE:This assembly does not include the parts shown with key No.1,3,4,5,6,14,16,502 and 503.

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
230 -	FG6 - 3719 - 000		1	MAIN DRIVE ASSEMBLY	
1	FB2 - 4927 - 000		1	MOUNT, TERMINAL, UPPER	SEE NOTE
2	FB4 - 9893 - 000		1	PLATE, BLANKING	
3	FF2 - 9724 - 000		1	CABLE, TERMINAL, PRIMARY	SEE NOTE
4	FF2 - 9725 - 000		1	CABLE, TERMINAL, TRANSFER	SEE NOTE
5	FF2 - 9726 - 000		1	CABLE, TERMINAL	SEE NOTE
6	FF2 - 9727 - 000		1	CABLE, TERMINAL, ELIMINATOR	SEE NOTE
7	FF5 - 8991 - 000		1	PLATE, SWING	
8	FG6 - 3739 - 000		1	MAIN MOTOR UNIT	M1 J901
9	FS5 - 0905 - 000		1	GEAR, 58T/35T	
10	FS5 - 2785 - 000		1	SPRING, TENSION	
11	FS5 - 6393 - 000		1	ROLLER, IDLER	
12	FS7 - 0443 - 000		1	GEAR, 38T/42T	
13	FS7 - 0444 - 000		1	GEAR, 18T	
14	XA9 - 0760 - 000		AR	SCREW,RS,M3X6	SEE NOTE
15	XA9 - 0760 - 000		8	SCREW,RS,M3X6	
16	XA9 - 0762 - 000		1	SCREW,RS,M3X8	NON ADF TYPE SEE NOTE
	XA9 - 0760 - 000		1	SCREW,RS,M3X6	ADF TYPE SEE NOTE
501	XB1 - 2300 - 609		1	SCREW,MACH.,TRUSS HEAD,M3X6	
502	XB1 - 2400 - 609		1	SCREW,MACH.,TRUSS HEAD,M4X6	SEE NOTE
503	XB4 - 7401 - 009		AR	SCREW,TAPPING,TRUSS HEAD,M4X10	SEE NOTE

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FIGURE 250 PAPER PICK-UP DRIVE ASSEMBLY (MULTI TYPE)

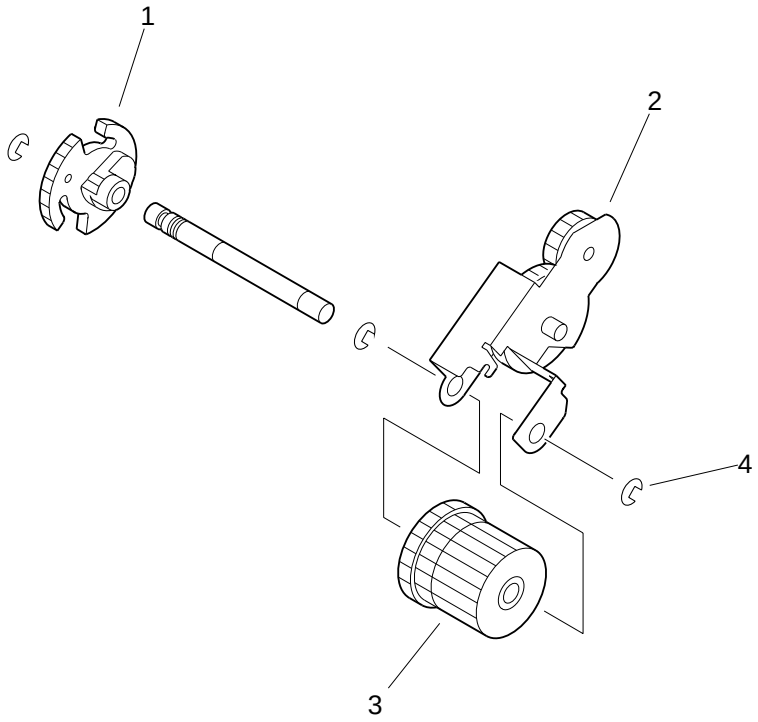

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
250 -	FG6 - 3712 - 000		1	PAPER PICK-UP DRIVE ASSEMBLY	MULTI TYPE
1	FB2 - 5198 - 000		1	GEAR, 32T	
2	FF5 - 8992 - 000		1	PLATE, SWING	
3	FS7 - 0430 - 000		1	GEAR, 35T/32T	
4	XD9 - 0136 - 000		3	RING,E	

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FIGURE 251

PAPER PICK-UP DRIVE ASSEMBLY (SINGLE TYPE)

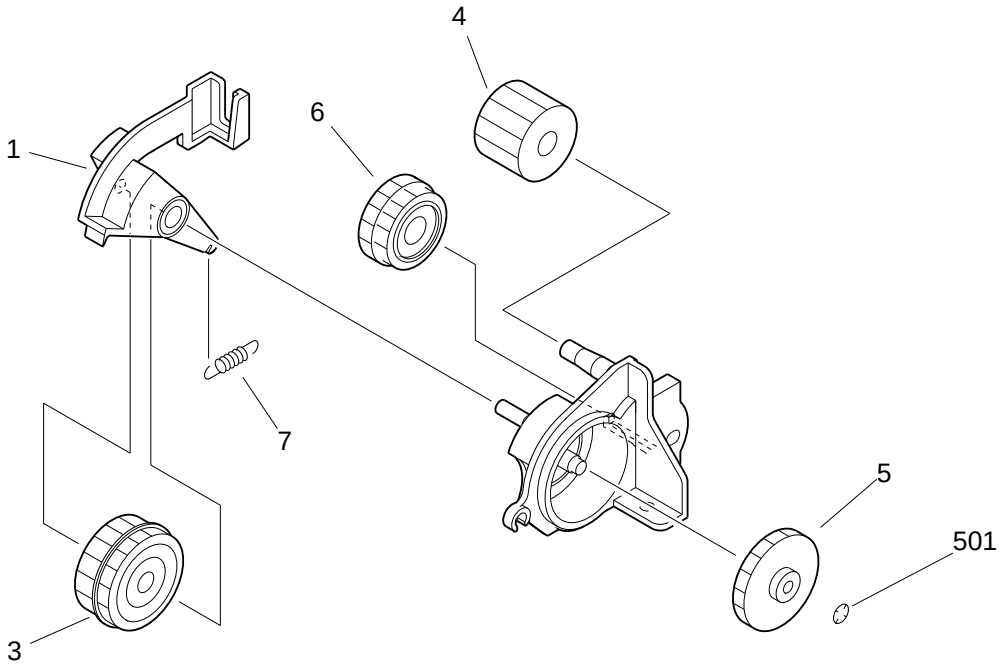

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
251 -	FG6 - 4075 - 000		1	PICK-UP DRIVE ASSEMBLY	SINGLE TYPE
1	FB2 - 5275 - 000		1	LEVER, CLUTCH	
2	FB4 - 9835 - 000		1	LEVER, CLUTCH	
3	FS5 - 0894 - 000		1	GEAR, 26T	
4	FS5 - 0895 - 000		1	GEAR,20T	
5	FS5 - 0896 - 000		1	GEAR, 29T	
6	FS5 - 0897 - 000		1	GEAR, 25T/26T	
7	FS5 - 2775 - 000		1	SPRING, TENSION	
501	XD2 - 2300 - 402		1	RING,TOOTHED LOCK	

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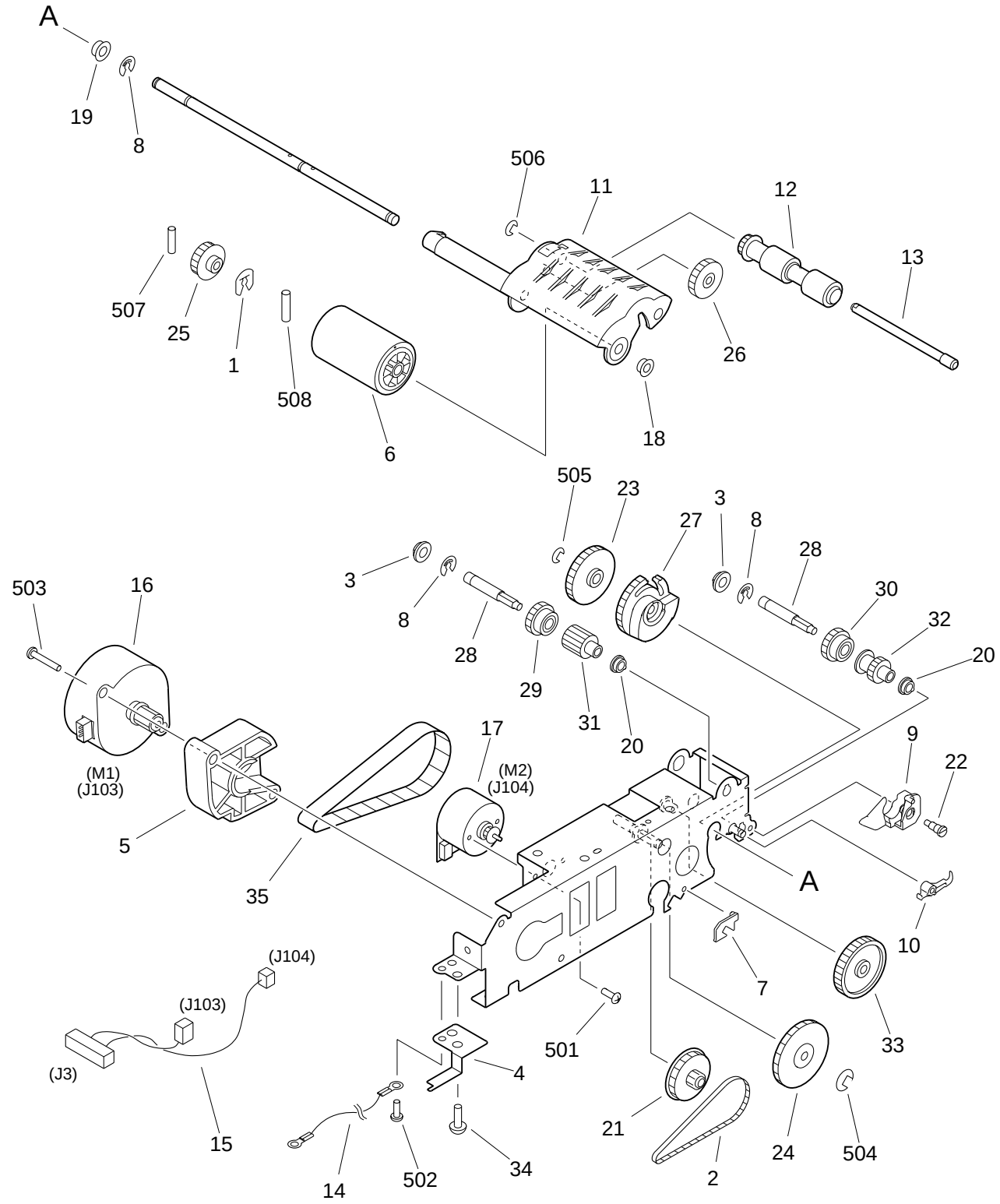
FIGURE 290 ADF DRIVE ASSEMBLY (ADF TYPE)



NOTE:This assembly does not include the parts shown with key No.4 and 34.

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
290 -	FG5 - 6420 - 000		1	ADF DRIVE ASSEMBLY	ADF TYPE
1	FA5 - 2864 - 020		1	RING, RETAINING	
2	FA9 - 3268 - 000		1	BELT, TIMING, COGGED	
3	FA9 - 3668 - 000		2	BUSHING	
4	FB3 - 3353 - 000		1	PLATE, GROUNDING	SEE NOTE
5	FB3 - 3371 - 000		1	MOUNT, MOTOR	
6	FB3 - 3373 - 020		1	ROLLER, PAPER PICK-UP	
7	FB3 - 3377 - 000		1	SUPPORT, REGIST. SHAFT	
8	FB3 - 3400 - 000		3	RING, E	
9	FB4 - 1148 - 000		1	BLOCK, CAM LINK, 1	
10	FB4 - 1149 - 000		1	BLOCK, CAM LINK, 2	
11	FB4 - 1150 - 000		1	HOLDER, PAPER PICK-UP ROLLER	
12	FB4 - 1151 - 000		1	ROLLER, PAPER PICK-UP	
13	FB4 - 1152 - 000		1	SHAFT, PAPER PICK-UP ROLLER	
14	FF3 - 1070 - 000		1	CABLE, GROUNDING	
15	FG2 - 7468 - 000		1	CABLE, MOTOR	J3,103,104
16	FH6 - 1237 - 000		1	STEPPING MOTOR, DC24V	M1 J103
17	FH6 - 1238 - 000		1	MOTOR, DC24W	M2 J104
18	FS1 - 1190 - 000		1	BUSHING	
19	FS1 - 1213 - 000		1	BUSHING	
20	FS5 - 1438 - 000		1	BUSHING	
21	FS5 - 3462 - 000		1	GEAR, 21T/44T	
22	FS5 - 9362 - 000		1	SCREW,STEPPED,M4	
23	FS6 - 0617 - 000		1	GEAR, PICK-UP, 44T	
24	FS6 - 0618 - 000		1	GEAR, 16T/64T	
25	FS6 - 0619 - 000		1	GEAR, 30T	
26	FS6 - 0620 - 000		1	GEAR, 35T	
27	FS6 - 0622 - 000		1	GEAR, CAM, 44T	
28	FS6 - 5517 - 000		2	SHAFT, GEAR	
29	FS7 - 0340 - 000		1	GEAR, 21T	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
290 - 30	FS7 - 0341 - 000		1	GEAR, 21T	
31	FS7 - 0602 - 000		1	GEAR, 14T	
32	FS7 - 0603 - 000		1	GEAR, 14T	
33	FS7 - 0604 - 000		1	GEAR, 40T	
34	XA9 - 0605 - 000		1	SCREW,M4X8	SEE NOTE
35	XF9 - 0350 - 000		1	BELT, TIMING	
501	XB1 - 2260 - 309		2	SCREW,MACH.,TRUSS HEAD,M2.6X3	
502	XB1 - 2400 - 609		1	SCREW,MACH.,TRUSS HEAD,M4X6	
503	XB1 - 2402 - 009		2	SCREW,MACH.,TRUSS HEAD,M4X20	
504	XD2 - 1100 - 402		1	RING,E	
505	XD2 - 1100 - 502		1	RING,E	
506	XD2 - 1200 - 322		2	RING,E	
507	XD3 - 2200 - 122		1	PIN,DOWEL	
508	XD3 - 2200 - 142		1	PIN,DOWEL	

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FIGURE 300 CASSETTE (250 UNIVERSAL TYPE)

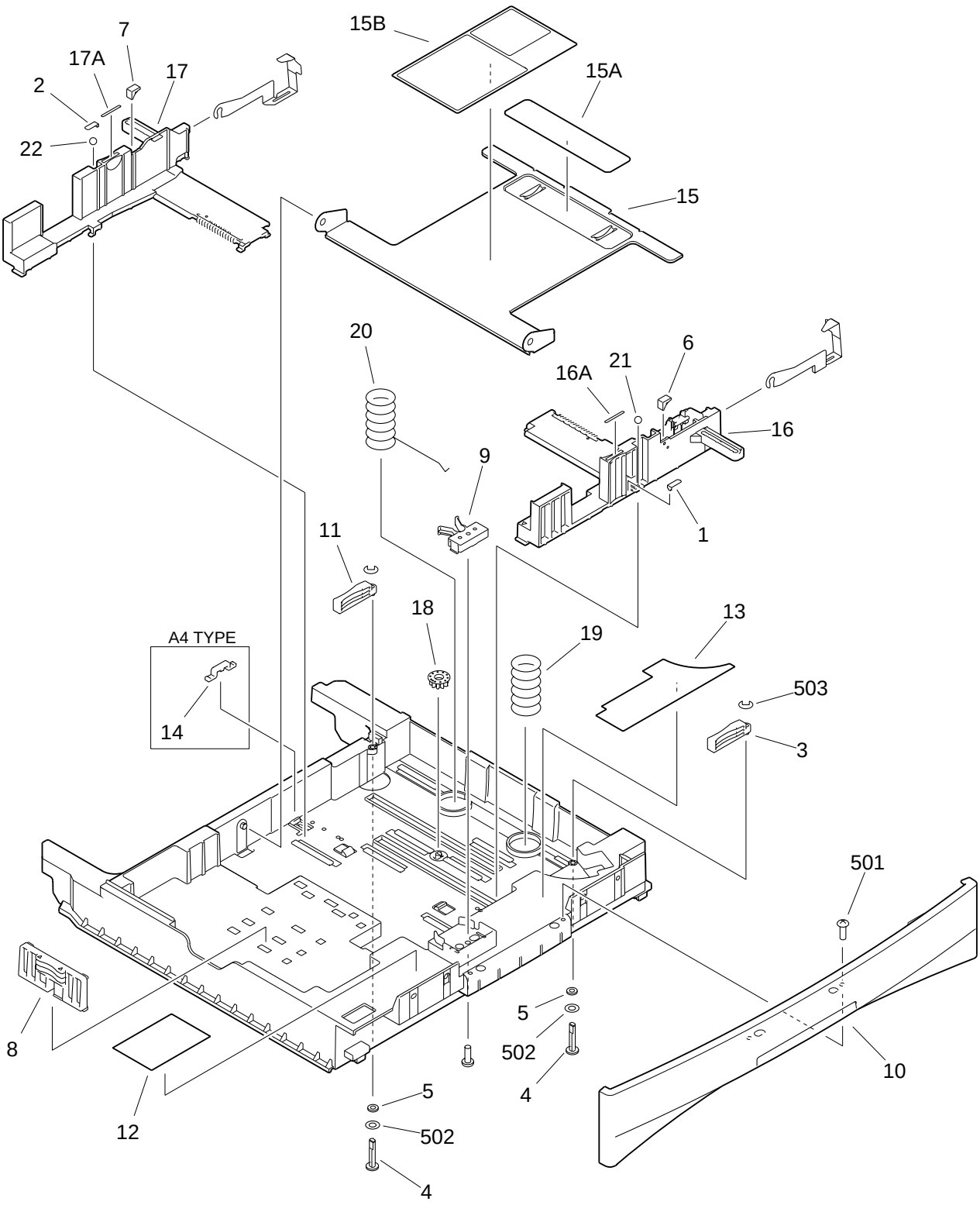

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
300 -	NPN		RF	CASSETTE	250 UNIVERSAL TYPE
1	FB5 - 0165 - 000		1	SPRING, LEAF	
2	FB5 - 0165 - 000		1	SPRING, LEAF	
3	FB5 - 0168 - 000		1	LEVER, SIDE PLATE LOCK, FRONT	
4	FB5 - 0169 - 000		2	SHAFT, LOCK LEVER	
5	FB5 - 0170 - 000		2	PAD, RUBBER	
6	FB5 - 0171 - 000		1	SUPPORT, CLAW	
7	FB5 - 0171 - 000		1	SUPPORT, CLAW	
8	FB5 - 0172 - 000		1	PLATE, END SIDE LIMIT	
9	FB5 - 0173 - 000		1	GUIDE, POSITIONING	
10	FB5 - 0174 - 000		1	PANEL, CASSETTE, FRONT	
11	FB5 - 0175 - 000		1	LEVER, SIDE PLATE LOCK, REAR	
12	FB5 - 0176 - 000		1	LABEL, PAPER INSTRUCTION	
13	FB5 - 0177 - 000		1	LABEL, SIZE CHANGE INSTRUCTION	
14	FB5 - 0180 - 000		1	SUPPORT, STOP	A4 TYPE
15	FF5 - 9033 - 000		1	PLATE, PAPER LIFTING	
15A	FB5 - 0159 - 000		1	SHEET, SEPARATION	
15B	FB5 - 0179 - 000		1	LABEL, PLATE LIFTING	
16	FF5 - 9034 - 000		1	PLATE, SIDE LIMIT, FRONT	
16A	FB5 - 0178 - 000		1	LABEL, SIDE PLATE OPERATION	
17	FF5 - 9035 - 000		1	PLATE, SIDE LIMIT, REAR	
17A	FB5 - 0178 - 000		1	LABEL, SIDE PLATE OPERATION	
18	FS7 - 0457 - 000		1	GEAR, 10T	
19	FS7 - 2201 - 000		1	SPRING, COMPRESSION	
20	FS7 - 2202 - 000		1	SPRING, COMPRESSION	
21	X71 - 7503 - 000		1	BALL, SLIDE CLICK FEELING	
22	X71 - 7503 - 000		1	BALL, SLIDE CLICK FEELING	
501	XB4 - 7400 - 809		3	SCREW,TAPPING,TRUSS HEAD,M4X8	
502	XD1 - 1104 - 635		2	SHIM	
503	XD2 - 1200 - 202		2	RING,E	

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FIGURE 301 CASSETTE (250 A4 TYPE)

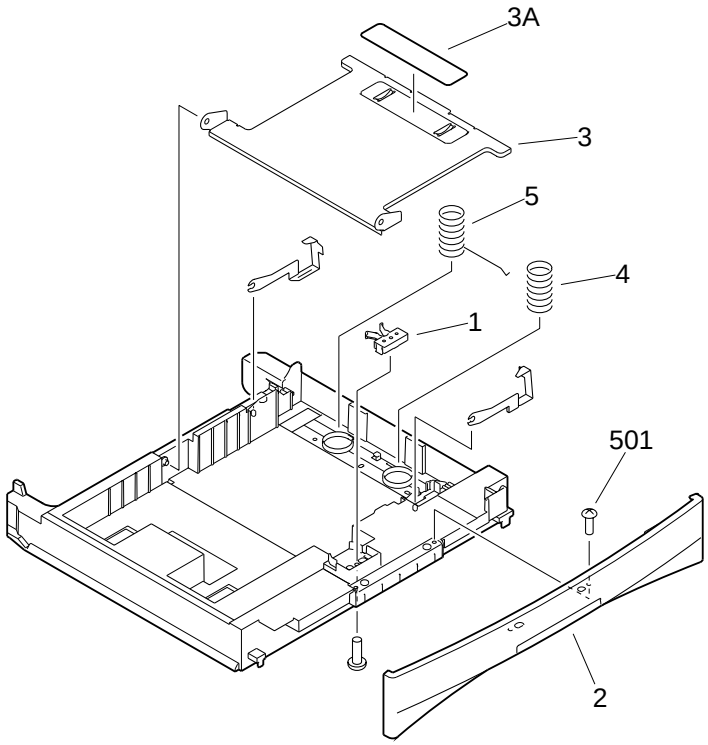

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
301 -	NPN		RF	CASSETTE	250 A4 TYPE
1	FB5 - 0173 - 000		1	GUIDE, POSITIONING	
2	FB5 - 0174 - 000		1	PANEL, CASSETTE, FRONT	
3	FF5 - 9609 - 000		1	PLATE, PAPER LIFTING	
3 A	FB5 - 0159 - 000		1	SHEET, SEPARATION	
4	FS7 - 2201 - 000		1	SPRING, COMPRESSION	
5	FS7 - 2202 - 000		1	SPRING, COMPRESSION	
5 0 1	XB4 - 7400 - 809		3	SCREW,TAPPING,TRUSS HEAD,M4X8	

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FIGURE 302 CASSETTE (500 TYPE)

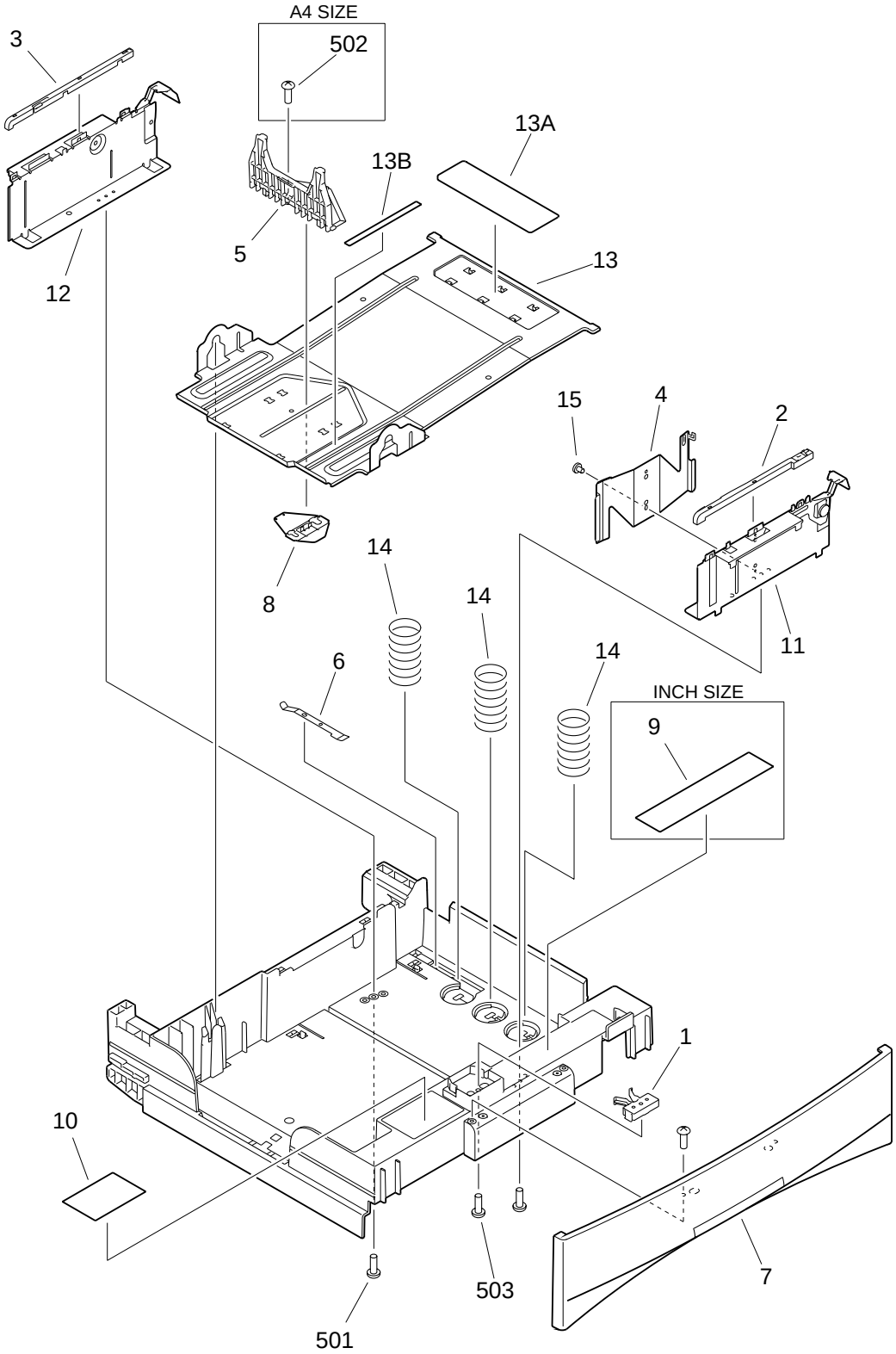

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
302 -	NPN		RF	CASSETTE	500 TYPE
1	FB5 - 0173 - 000		1	GUIDE, POSITIONING	
2	FB5 - 0218 - 000		1	COVER, LIMIT PLATE, FRONT	
3	FB5 - 0219 - 000		1	COVER, LIMIT PLATE, REAR	
4	FB5 - 0220 - 000		1	SPRING, LEAF, SIDE LIMIT	
5	FB5 - 0221 - 000		1	PLATE, END SIDE LIMIT	
6	FB5 - 0222 - 000		1	SPRING, LEAF	
7	FB5 - 0223 - 000		1	PANEL, CASSETTE, FRONT	
8	FB5 - 0230 - 000		1	SPRING, LEAF, END LIMIT	
9	FB5 - 0232 - 000		1	LABEL, END LIMIT	INCH SIZE
10	FB5 - 0233 - 000		1	LABEL, PAPER SET	A4 SIZE
	FB5 - 0234 - 000		1	LABEL, PAPER SET	INCH SIZE
11	FF5 - 9073 - 000		1	PLATE, SIDE LIMIT, FRONT	
12	FF5 - 9074 - 000		1	PLATE, SIDE LIMIT, REAR	
13	FF5 - 9075 - 000		1	PLATE, PAPER LIFTING	
13A	FB5 - 0229 - 000		1	SHEET, SEPARATION	
13B	FB5 - 0231 - 000		1	LABEL, PAPAR SIZE	
14	FS7 - 2211 - 000		3	SPRING, COMPRESSION	
15	XA9 - 0903 - 000		2	SCREW,M3X5	
501	XB1 - 2300 - 809		2	SCREW,MACH.,TRUSS HEAD,M3X8	
502	XB4 - 7300 - 505		1	SCREW,TAPPING,TRUSS HEAD,M3X5	A4 SIZE
503	XB4 - 7400 - 809		3	SCREW,TAPPING,TRUSS HEAD,M4X8	

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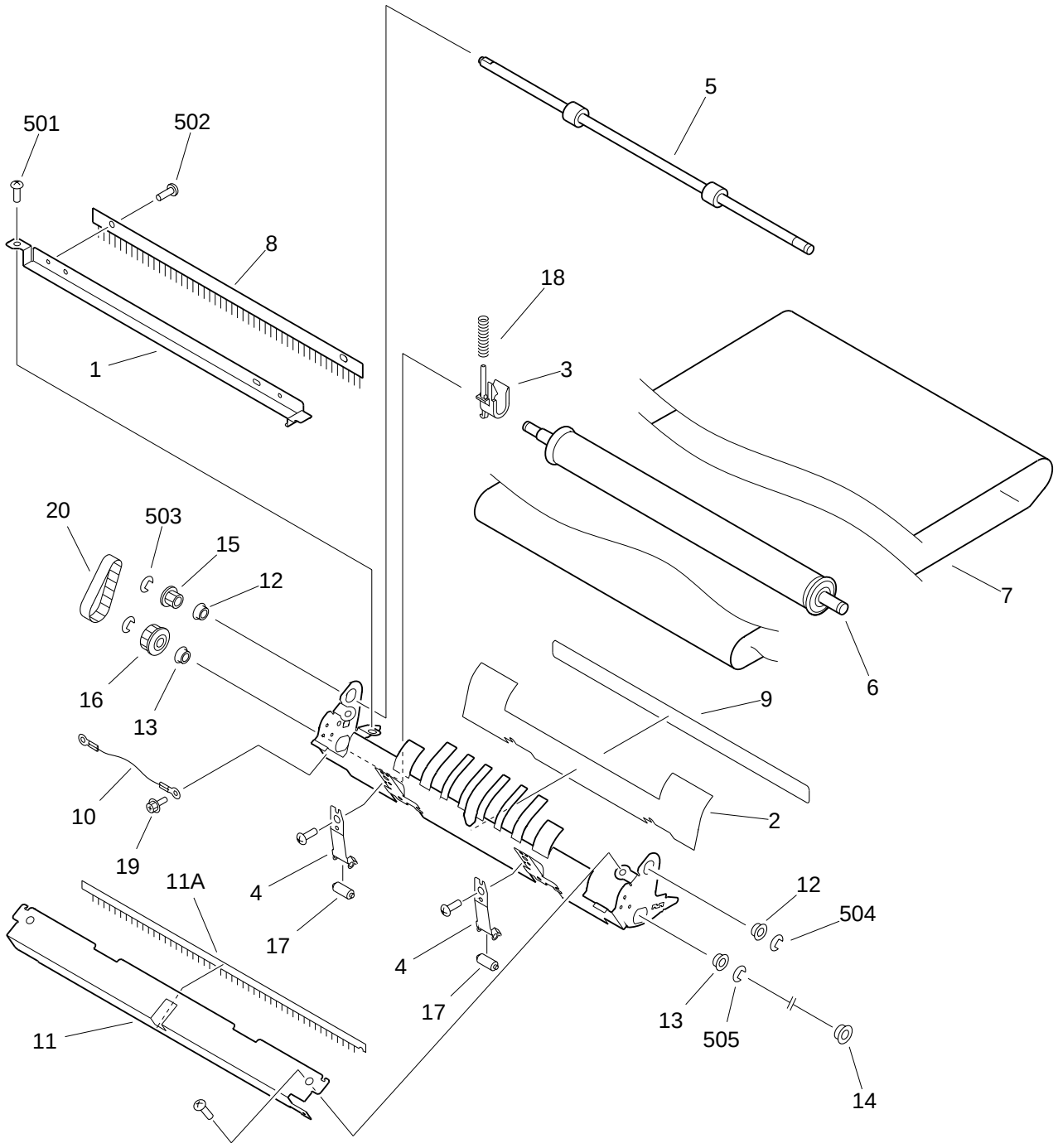
FIGURE 355 ADF DELIVERY ASSEMBLY (ADF TYPE)



NOTE:This assembly does not include the part shown with key No.19.

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
355 -	FG5 - 6413 - 000		1	ADF DELIVERY ASSEMBLY	ADF TYPE
1	FB3 - 3379 - 000		1	CROSSMEMBER, ELIMINATOR	
2	FB3 - 3381 - 000		1	SHEET, JUMP	
3	FB3 - 3382 - 000		1	SUPPORT, PAPER JUMP GUIDE	
4	FB3 - 3383 - 000		2	PLATE, ROLLER PRESSURE	
5	FB3 - 3385 - 020		1	ROLLER, PAPER DELIVERY	
6	FB3 - 3386 - 000		1	ROLLER, PAPER FEED	
7	FB3 - 3387 - 000		1	BELT, DOCUMENT FEED	
8	FB3 - 3388 - 000		1	ELIMINATOR, STATIC CHARGE, 1	
9	FB3 - 3408 - 000		1	SHEET, EXTENSION	
10	FF3 - 1071 - 000		1	CABLE, GROUNDING	
11	FF5 - 4686 - 000		1	PLATE, DELIVERY GUIDE	
11A	FB3 - 3389 - 000		1	ELIMINATOR, STATIC CHARGE, 2	
12	FS1 - 1205 - 000		3	BUSHING	
13	FS1 - 1341 - 000		2	BUSHING	
14	FS1 - 1422 - 000		1	BUSHING	
15	FS5 - 3459 - 000		1	PULLEY, 14T	
16	FS5 - 3460 - 000		1	PULLEY, 26T	
17	FS5 - 6455 - 000		2	ROLLER, 2	
18	FS6 - 2375 - 000		1	SPRING, COMPRESSION	
19	XA9 - 0633 - 000		1	SCREW,RS,M4X8	SEE NOTE
20	XF9 - 0562 - 000		1	BELT, TIMING	
501	XB1 - 2300 - 609		2	SCREW,MACH.,TRUSS HEAD,M3X6	
502	XB1 - 2400 - 609		6	SCREW,MACH.,TRUSS HEAD,M4X6	
503	XD2 - 1100 - 322		1	RING,E	
504	XD2 - 1100 - 502		2	RING,E	
505	XD2 - 1100 - 642		1	RING,E	

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FIGURE 400 MIRROR ASSEMBLY 1

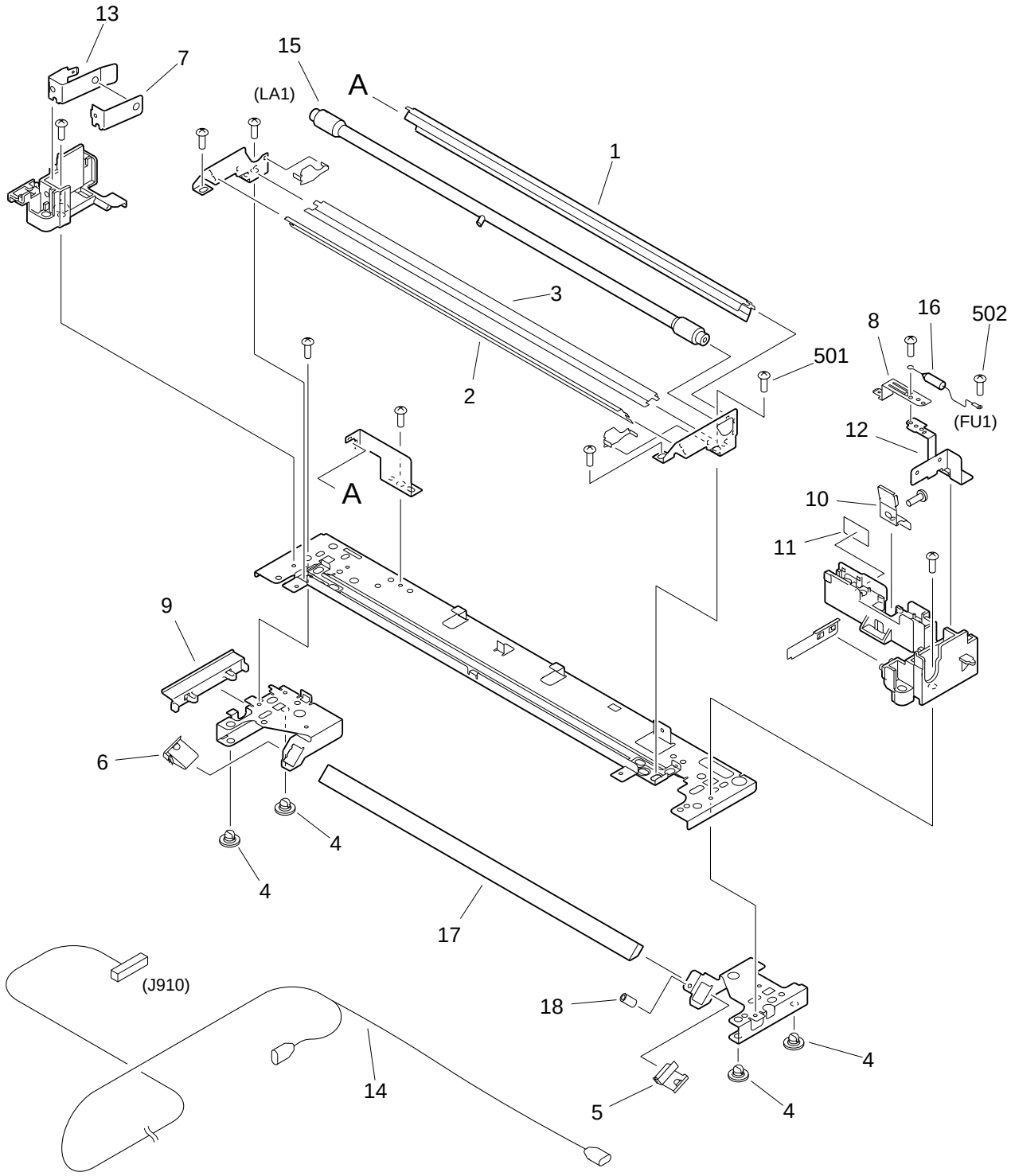

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
400 -	FG6 - 3749 - 000		1	MIRROR ASSEMBLY 1	100/120V
	FG6 - 3750 - 000	N	1	MIRROR ASSEMBLY 1	220/240V
1	FB5 - 0058 - 000		1	REFLECTOR, UPPER	
2	FB5 - 0059 - 000		1	REFLECTOR, MIDDLE	
3	FB5 - 0060 - 000		1	REFLECTOR, LOWER	
4	FB5 - 0069 - 000		4	BLOCK, RAIL SLIDING	
5	FB5 - 0070 - 000		1	SPRING, LEAF, MIRROR	
6	FB5 - 0071 - 000		1	SPRING, LEAF, MIRROR	
7	FB5 - 0074 - 000		1	SPRING, LEAF	
8	FB5 - 0075 - 000		1	TERMINAL, FUSE PLATE	
9	FB5 - 0080 - 000		1	COVER, INSULATION	
10	FB5 - 0095 - 000		1	SPRING, LEAF, FUSE HOLDING	
11	FB5 - 0108 - 000		1	LABEL, THERMAL FUSE	
12	FF5 - 8986 - 000		1	PLATE, TERMINAL, FRONT	
13	FF5 - 8987 - 000		1	PLATE, TERMINAL, REAR	
14	FG6 - 3761 - 000		1	CABLE, MIRROR UNIT 1 LAMP	J910
15	FH7 - 3381 - 000		1	LAMP, HALOGEN 80V 110W	100/120V LA1
	FH7 - 3380 - 000		1	LAMP, HALOGEN 150V 160W	220/240V LA1
16	FH7 - 7511 - 000		1	FUSE, THERMAL	FU1
17	FN5 - 4143 - 000		1	MIRROR, 1	
18	XA9 - 0911 - 000		1	SETSCREW,M3X8	
501	XB1 - 2300 - 609		17	SCREW,MACH.,TRUSS HEAD,M3X6	
502	XB2 - 8300 - 607		2	SCREW,W/WASHER,M3X6	

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FIGURE 401 MIRROR ASSEMBLY 2

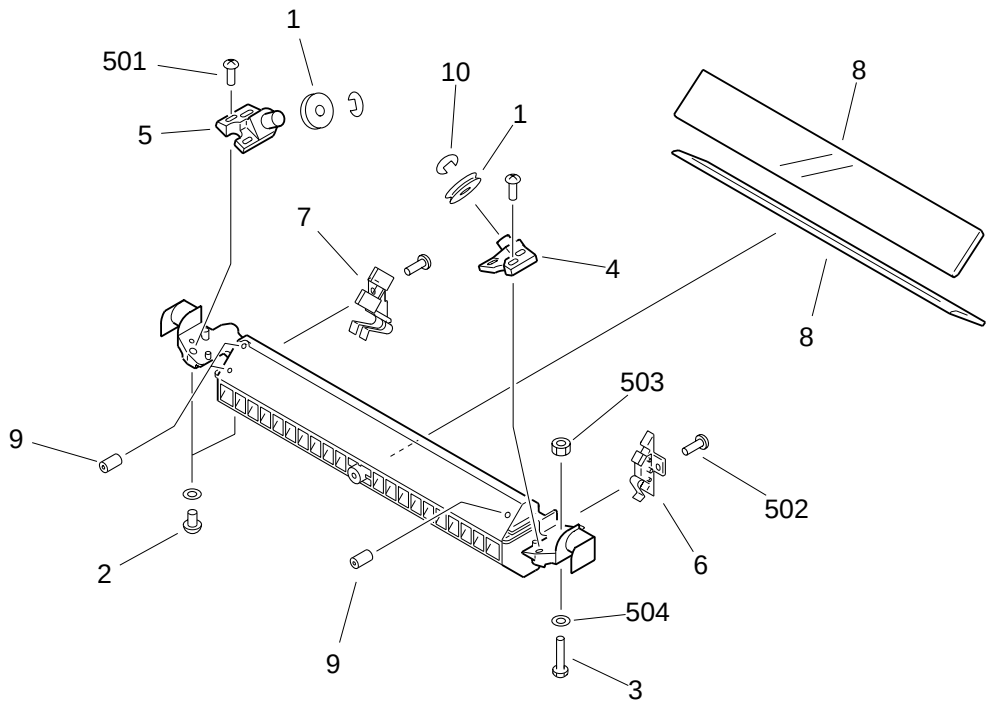

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
401 -	FG6 - 3753 - 000	N	1	MIRROR ASSEMBLY 2	
1	FB2 - 4616 - 000		2	PULLEY	
2	FB2 - 4669 - 020		2	BLOCK, RAIL SLIDING	
3	FB2 - 4676 - 000		1	SCREW, ADJUSTING, M4	
4	FB2 - 4677 - 020		1	PLATE, WIRE POSITIONING, FRONT	
5	FB2 - 4678 - 020		1	PLATE, WIRE POSITIONING, REAR	
6	FF5 - 2899 - 000		1	HOLDER, MIRROR, FRONT	
7	FF5 - 2900 - 000		1	HOLDER, MIRROR, REAR	
8	FN5 - 4144 - 000		2	MIRROR, 2/3	
9	XA9 - 0911 - 000		3	SETSCREW,M3X8	
10	XD9 - 0136 - 000		2	RING,E	
501	XB4 - 7300 - 809		2	SCREW,TAPPING,TRUSS HEAD,M3X8	
502	XB4 - 7301 - 009		2	SCREW,TAPPING,TRUSS HEAD,M3X10	
503	XB7 - 2200 - 409		1	NUT,HEX,M4	
504	XD1 - 1104 - 635		2	SHIM	

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FIGURE 402 ZOOM MIRROR ASSEMBLY

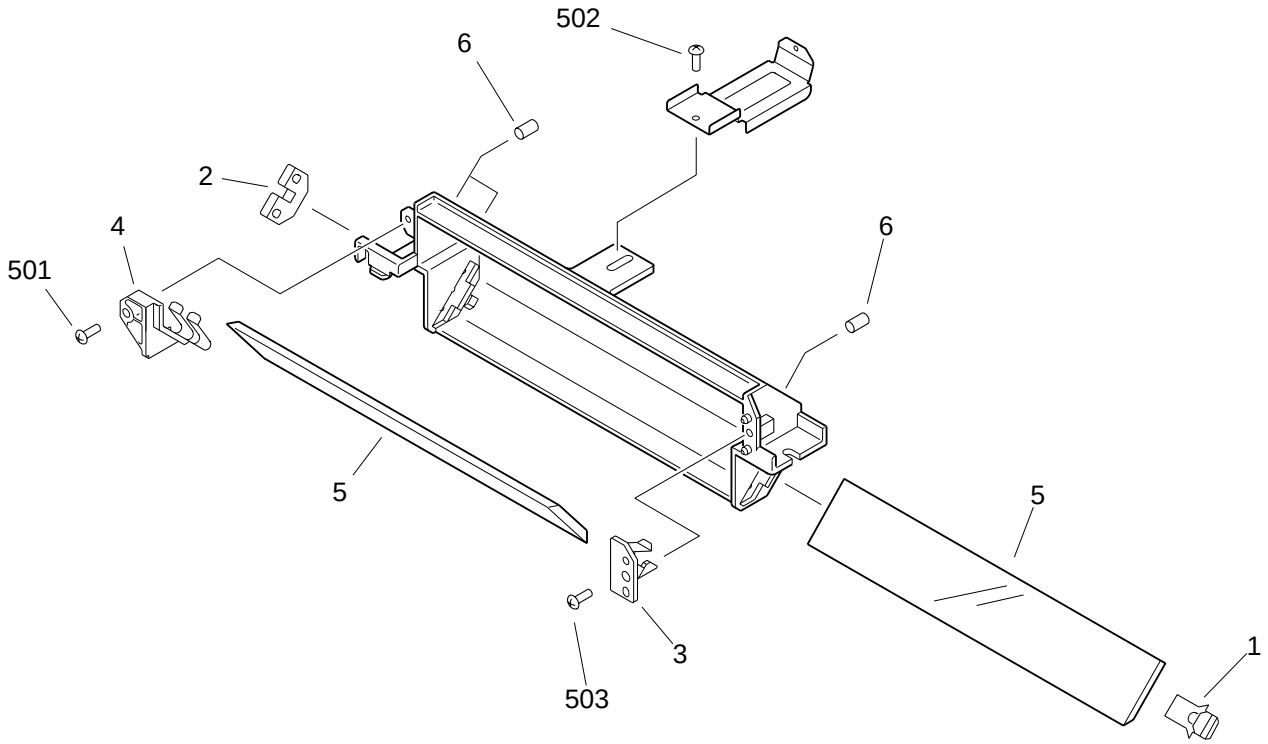

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
402 -	FG6 - 3754 - 000	N	1	ZOOM MIRROR ASSEMBLY	
1	FB2 - 4694 - 020		1	SPRING, LEAF, MIRROR 5, FRONT	
2	FB2 - 4695 - 030		1	SPRING, LEAF, MIRROR 5, REAR	
3	FF5 - 2901 - 000		1	SPRING, LEAF, MIRROR 4, FRONT	
4	FF5 - 2902 - 000		1	SPRING, LEAF, MIRROR 4, REAR	
5	FN5 - 4145 - 000		2	MIRROR, 4/5	
6	XA9 - 0911 - 000		3	SETSCREW,M3X8	
501	XB1 - 2300 - 609		1	SCREW,MACH.,TRUSS HEAD,M3X6	
502	XB1 - 2300 - 809		1	SCREW,MACH.,TRUSS HEAD,M3X8	
503	XB4 - 7301 - 009		1	SCREW,TAPPING,TRUSS HEAD,M3X10	

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FIGURE 450 BLANK EXPOSURE LAMP ASSEMBLY

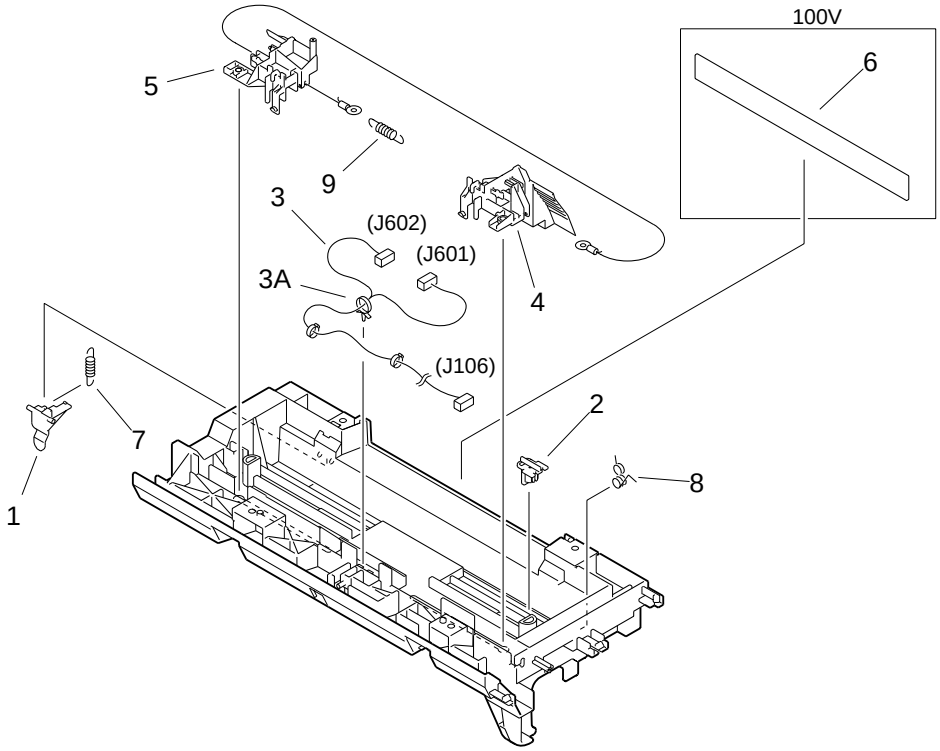

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
450 -	FG6 - 3751 - 000		1	BLANK EXPOSURE LAMP ASSEMBLY	100V
	FG6 - 3736 - 000		1	BLANK EXPOSURE LAMP ASSEMBLY	120/220/240V
1	FB2 - 4759 - 000		1	PLATE, OPEN/CLOSE SHUTTER	
2	FB2 - 4760 - 000		1	COVER, WIRE	
3	FF2 - 9731 - 000		1	CABLE, BLANK EXPOSURE LAMP	J106,601,602
3 A	WT2 - 5041 - 000		1	CLAMP, CABLE	
4	FG5 - 7756 - 000		1	MOUNT, LAMP, FRONT	
5	FG5 - 7757 - 000		1	MOUNT, LAMP, REAR	
6	FN5 - 4148 - 000		1	GLASS, BLUE	100V
7	FS5 - 2787 - 000		1	SPRING, TENSION	
8	FS5 - 2788 - 000		1	SPRING, TORSION	
9	FS5 - 2790 - 000		1	SPRING, TENSION	

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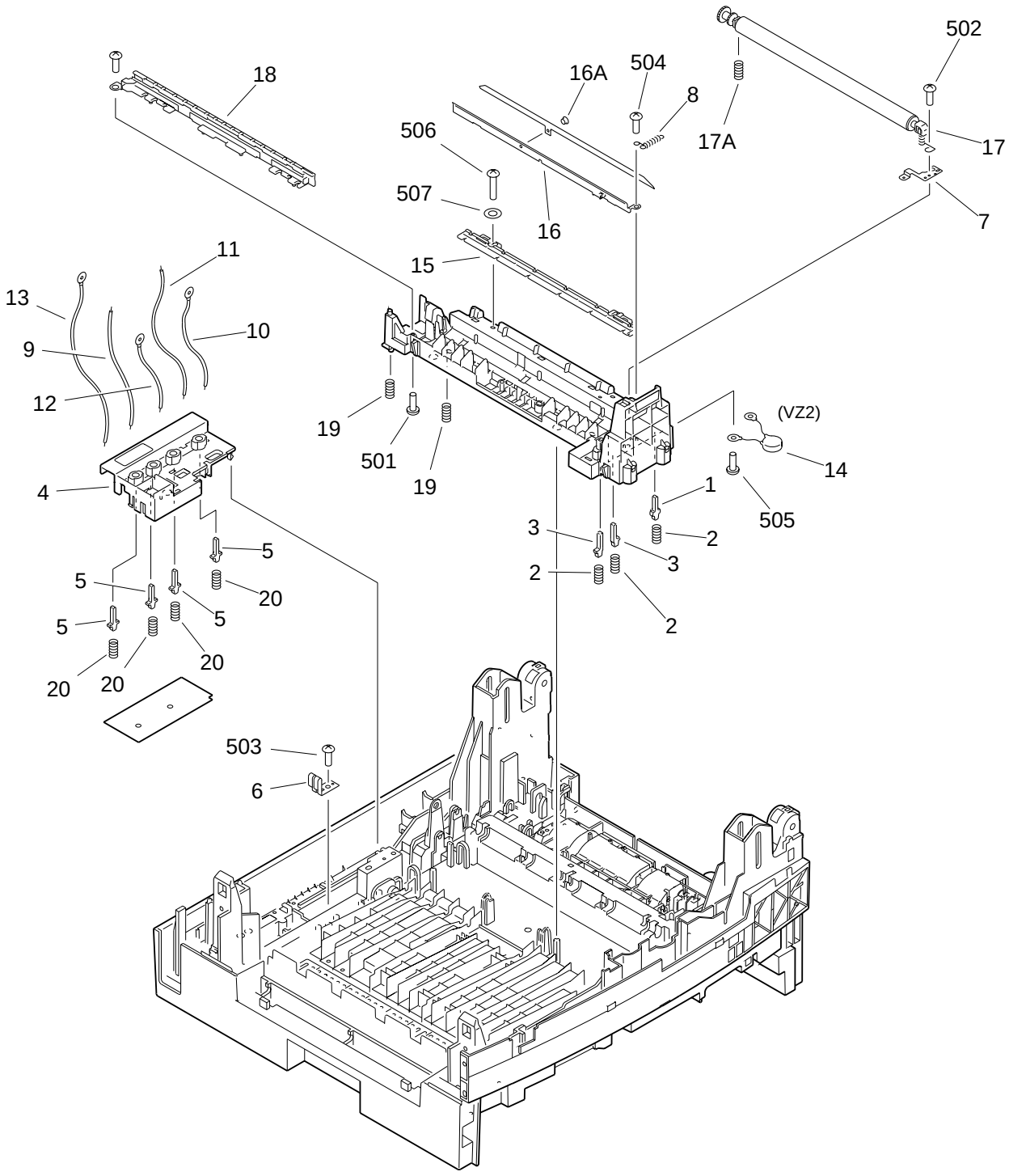
FIGURE 530 TRANSFER ASSEMBLY



NOTE:This assembly does not include the part shown with key No.503.

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
530 -	FG6 - 3730 - 000		1	TRANSFER ASSEMBLY	
1	FB1 - 7425 - 000		1	PIN CONTACT	
2	FB1 - 7427 - 000		3	SPRING, COMPRESSION	
3	FB1 - 7431 - 000		2	PIN CONTACT	
4	FB2 - 4861 - 000		1	HOUSING	
5	FB2 - 4862 - 000		4	TERMINAL, LOWER	
6	FB2 - 4939 - 000		1	SPRING, LEAF	
7	FB2 - 5156 - 000		1	PLATE, TERMINAL	
8	FB2 - 5169 - 000		1	SPRING, TENSION	
9	FF2 - 9762 - 000		1	CABLE, HV, PRIMARY	
10	FF2 - 9763 - 000		1	CABLE, HV, TRANSFER	
11	FF2 - 9764 - 000		1	CABLE, HV, DEVELOPING	
12	FF2 - 9765 - 000		1	CABLE, HV, ELIMINATOR	
13	FF2 - 9766 - 000		1	WIRE, GROUNDING	
14	FF2 - 9779 - 000		1	VARISTOR	VZ2
15	FF5 - 1673 - 000		1	GUIDE, TRANSFORMER	
16	FF5 - 2870 - 000		1	ELIMINATOR, STATIC CHARGE	
16A	FA9 - 3063 - 000		1	BUSHING	
17	FF5 - 2871 - 020		1	ROLLER, TRANSFER	
17A	FS5 - 2335 - 000		1	SPRING, COMPRESSION	
18	FF5 - 3713 - 000		1	ELIMINATOR, STATIC CHARGE	
19	FS5 - 2774 - 000		4	SPRING, COMPRESSION	
20	FS5 - 2784 - 000		4	SPRING, COMPRESSION	
501	XB1 - 2300 - 607		2	SCREW,MACH.,TRUSS HEAD,M3X6	
502	XB1 - 2300 - 609		2	SCREW,MACH.,TRUSS HEAD,M3X6	
503	XB1 - 2300 - 609		1	SCREW,MACH.,TRUSS HEAD,M3X6	SEE NOTE
504	XB4 - 7300 - 609		3	SCREW,TAPPING,TRUSS HEAD,M3X6	
505	XB4 - 7300 - 809		5	SCREW,TAPPING,TRUSS HEAD,M3X8	
506	XB4 - 7301 - 009		2	SCREW,TAPPING,TRUSS HEAD,M3X10	
507	XD1 - 2100 - 307		2	WASHER,PLAIN	

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FIGURE 810 FIXING ASSEMBLY

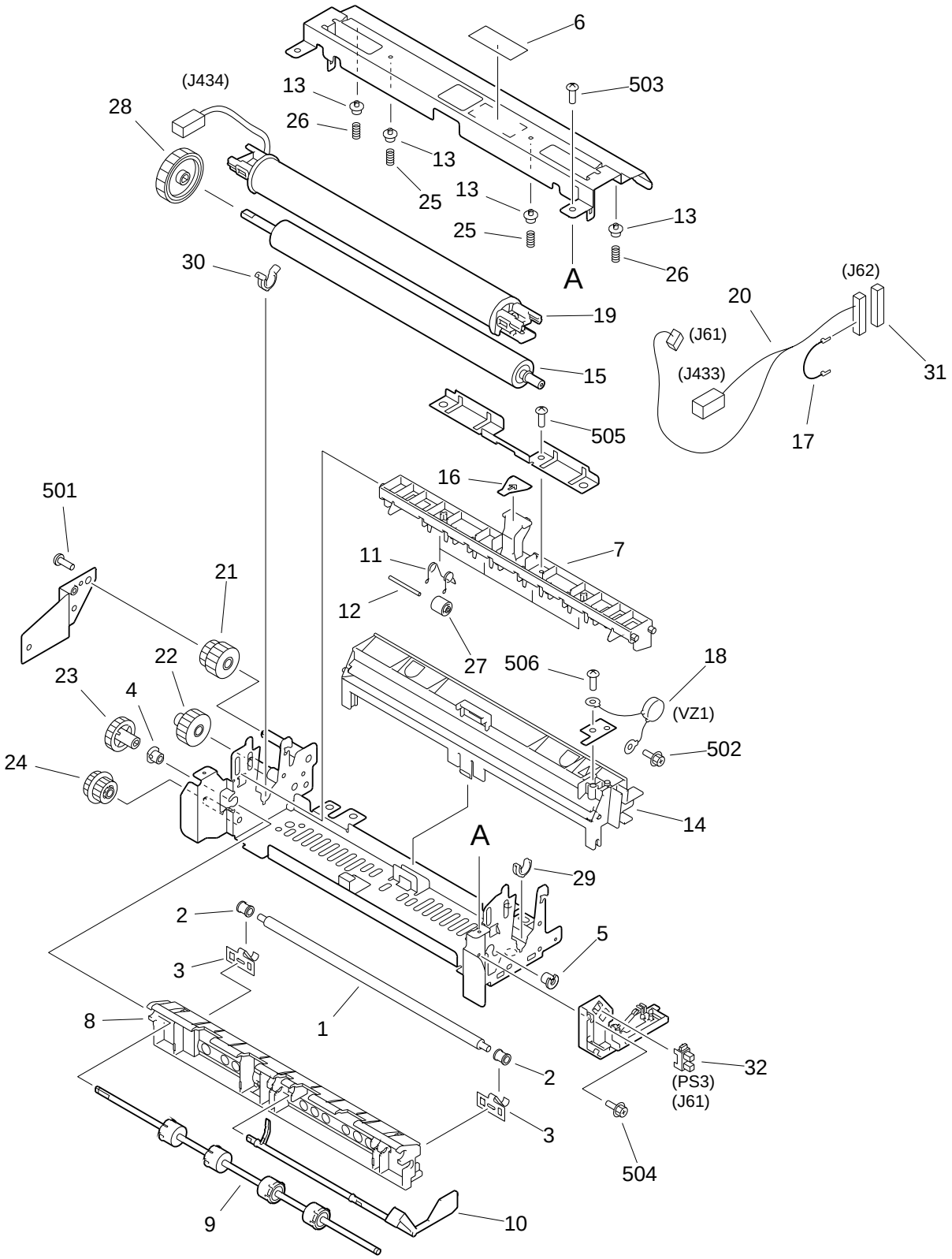

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
810 -	FG6 - 3731 - 000		1	FIXING ASSEMBLY	100V
	FG6 - 3720 - 000		1	FIXING ASSEMBLY	120V
	FG6 - 3721 - 000		1	FIXING ASSEMBLY	220/240V
1	FB2 - 5040 - 000		1	ROLLER, CLEANING	
2	FB2 - 5041 - 000		2	BUSHING	
3	FB2 - 5042 - 020		2	SPRING, LEAF	
4	FB2 - 9617 - 000		1	BUSHING	
5	FB2 - 9651 - 000		1	BUSHING	
6	FB2 - 9653 - 000		1	LABEL, CAUTION	
7	FB4 - 9863 - 000		1	GUIDE, FIXING DELIVERY, UPPER	
8	FB4 - 9864 - 000		1	GUIDE, LOWER, DELIVERY	
9	FB4 - 9866 - 000		1	ROLLER, PAPER DELIVERY	
10	FB4 - 9867 - 000		1	ARM, PAPER DELIVERY SENSOR	
11	FB4 - 9872 - 000		4	SPRING, TORSION	
12	FB4 - 9873 - 000		4	SHAFT, DELIVERY ROLLER	
13	FB4 - 9875 - 000		4	SUPPORT, FIXING SPRING	
14	FB4 - 9877 - 000		1	GUIDE, ENTRANCE	
15	FB4 - 9878 - 000		1	ROLLER, PRESSURE	
16	FB4 - 9905 - 000		1	LABEL, DELIVERY OPERATION	
17	FF3 - 3739 - 000		1	CABLE, SHORT	
18	FF3 - 3752 - 000		1	VARISTOR	VZ1
19	FG6 - 3722 - 000		1	FILM GUIDE UNIT	100V J434
	FG6 - 4064 - 000		1	FILM GUIDE UNIT	120V J434
	FG6 - 3723 - 000		1	FILM GUIDE UNIT	220/240V J434
20	FG6 - 3773 - 000		1	CABLE, FIXING DC	J61,62,433
21	FS7 - 0427 - 000		1	GEAR, 20T	
22	FS7 - 0428 - 000		1	GEAR, 21T	
23	FS7 - 0429 - 000		1	GEAR, 26T	
24	FS7 - 0446 - 000		1	GEAR, 16T/18T	
25	FS7 - 2181 - 000		2	SPRING, COMPRESSION	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
810 - 26	FS7 - 2189 - 000		2	SPRING, COMPRESSION	
27	RB1 - 8806 - 000		4	ROLLER, DELIVERY	
28	RS5 - 0922 - 000		1	GEAR, 34T	
29	RS5 - 1297 - 000		1	BUSHING	
30	RS5 - 1310 - 000		1	BUSHING	
31	VS1 - 5057 - 009		1	CONNECTOR, SNAP TIGHT	J62
32	WG8 - 5382 - 000		1	PHOTO-INTERRUPTER	PS3 J61
501	XB1 - 2300 - 409		2	SCREW,MACH.,TRUSS HEAD,M3X4	
502	XB1 - 2300 - 609		1	SCREW,MACH.,TRUSS HEAD,M3X6	
503	XB2 - 7300 - 607		2	SCREW,W/WASHER,M3X6	
504	XB2 - 8300 - 807		1	SCREW,W/WASHER,M3X8	
505	XB4 - 7300 - 609		1	SCREW,TAPPING,TRUSS HEAD,M3X6	
506	XB4 - 7300 - 609		1	SCREW,TAPPING,TRUSS HEAD,M3X6	

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FIGURE 910 DC POWER SUPPLY PCB ASSEMBLY

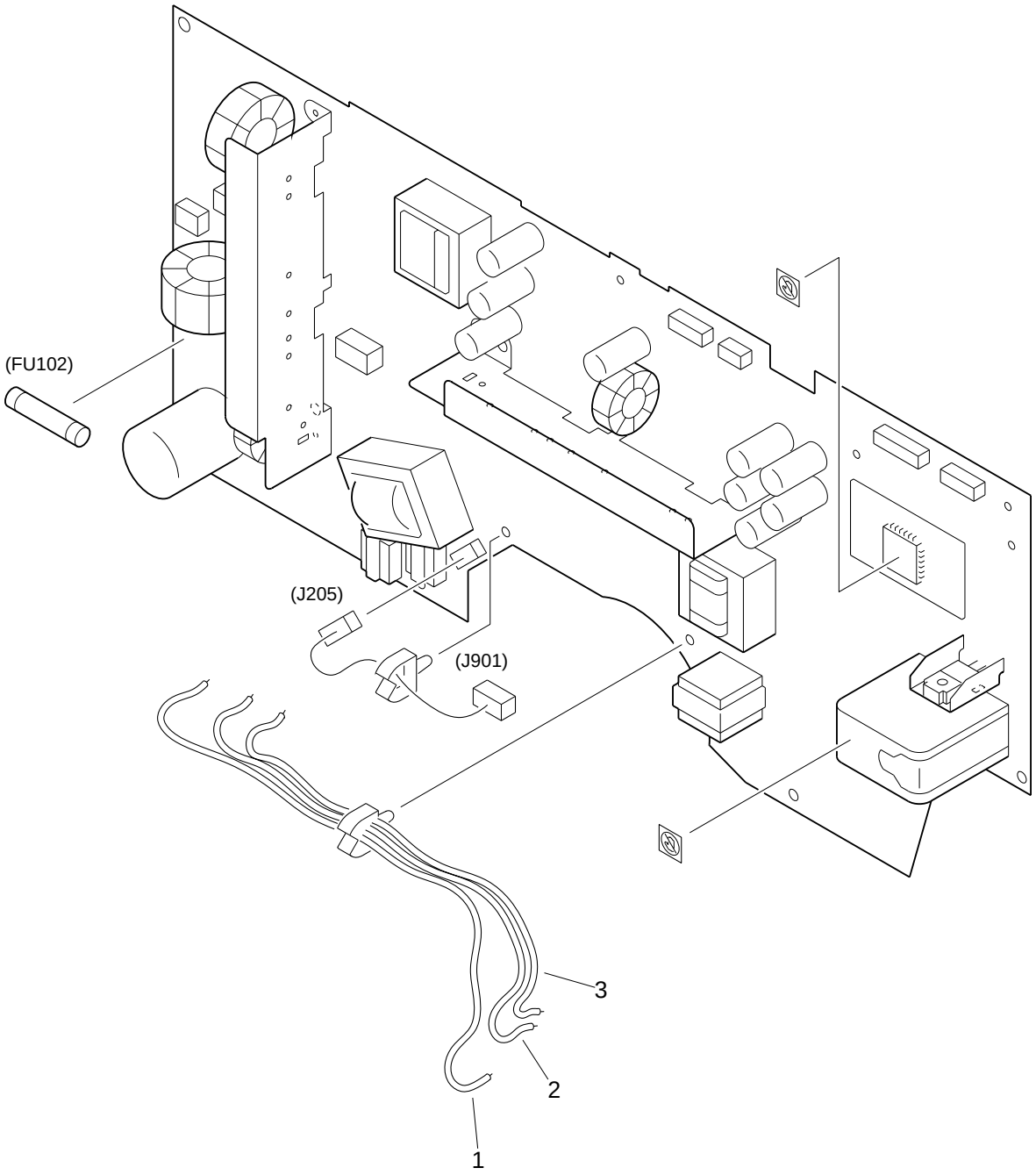

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 -	FG6 - 3791 - 000		1	DC POWER SUPPLY PCB ASSEMBLY	100/120V
	FG6 - 3792 - 000		1	DC POWER SUPPLY PCB ASSEMBLY	220/240V
1	FF3 - 3624 - 000		1	CABLE, HIGH VOLTAGE, 1	
2	FF3 - 3625 - 000		1	CABLE, HIGH VOLTAGE, 2	
3	FF3 - 3626 - 000		1	CABLE, HIGH VOLTAGE, 3	
FC1	WD9 - 5001 - 000		1	HOLDER, FUSE	
FC2	WD9 - 5001 - 000		1	HOLDER, FUSE	
FU102	VD7 - 0215 - 001		1	FUSE, 125V, 5A	100/120V
	VD7 - 0642 - 501		1	FUSE	220/240V
HIC001	FH4 - 6070 - 000		1	IC, TB5843, HYBRID	
J205	FF3 - 3627 - 000		1	CABLE, MOTOR	
L001	FH7 - 9220 - 000		1	COIL	
L101	FH3 - 7184 - 000		1	CHORK COIL, HP-053J	
L600	FH3 - 7170 - 000		1	COIL, CHOKE	100/120V
	FH3 - 7195 - 000		1	CHOKE COIL, SN14-8000	220/240V
R203	FH4 - 9157 - 000		1	RESISTOR, 4MOHM, 1/4W	
R225	FH4 - 9183 - 000		1	RESISTOR, 200MOHM, 1/8W	
R243	FH4 - 9184 - 000		1	RESISTOR, 9.6MOHM, 0.1W	
R254	FH9 - 0367 - 000		1	RESISTOR, 100MOHM, 1W	
RL601	FH7 - 6197 - 000		1	RELAY	
T101	FH3 - 0911 - 000		1	TRANSFORMER	100/120V
	FH3 - 0912 - 00S		1	TRANSFORMER	220/240V
T103	FH3 - 0667 - 000		1	TRANSFORMER	
T104	FH3 - 0665 - 000		1	TRANSFORMER	100/120V
	FH3 - 0666 - 000		1	TRANSFORMER	220/240V
T105	FH3 - 0668 - 000		1	TRANSFORMER	
T201	FH3 - 0569 - 000		1	TRANSFORMER, INVERTER	
T302	FH3 - 0734 - 000		1	TRANSFORMER, TR	
T508	FH3 - 0856 - 000		1	TRANSFORMER	
T600	FH3 - 0635 - 000		1	TRANSFORMER, POWER SUPPLY	100/120V

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
910 - T600	FH3 - 0636 - 000		1	TRANSFORMER, POWER SUPPLY	220/240V

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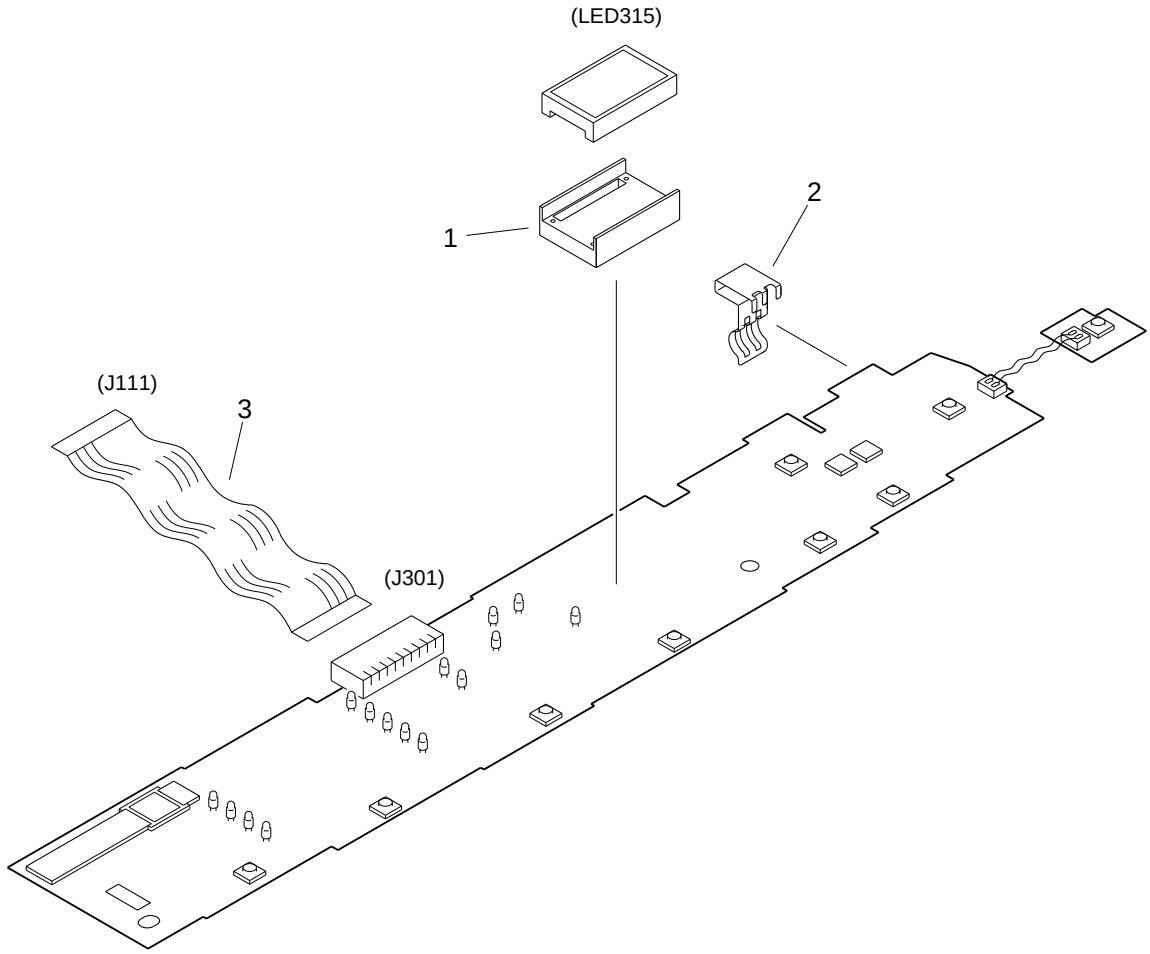
FIGURE 915 CONTROL PANEL PCB ASSEMBLY



NOTE1:This assembly is included in the assembly shown in Figure 130.
NOTE2:This assembly does not include the part shown with key No.3.

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
915 -	FG6 - 3771 - 000		1	CONTROL PANEL PCB ASSEMBLY	PC860/920/940 SEE NOTE 1
	FG6 - 3769 - 000		1	CONTROL PANEL PCB ASSEMBLY	PC880/950 SEE NOTE 1
	FG6 - 3765 - 000		1	CONTROL PANEL PCB ASSEMBLY	PC890/980 SEE NOTE 1
	FG6 - 3772 - 000		1	CONTROL PANEL PCB ASSEMBLY	PC921/941 SEE NOTE 1
	FG6 - 3767 - 000		1	CONTROL PANEL PCB ASSEMBLY	PC960 SEE NOTE 1
	FG6 - 3766 - 000		1	CONTROL PANEL PCB ASSEMBLY	PC981 SEE NOTE 1
1	FB2 - 4900 - 000		1	SPACER	
2	FB5 - 0099 - 000		1	PLATE, GROUNDING	
3	FH2 - 6709 - 000		1	CABLE, FLAT	SEE NOTE 2 J111,301
LED301	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	PC860/880/890/920 PC940/950/960/980
LED302	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	
LED303	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	
LED304	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	
LED305	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	
LED306	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	
LED307	WG1 - 5611 - 000		1	LED, EMAA3361X-J374K	
LED308	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	
LED310	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	PC860/880/890/920 PC940/950/960/980
LED311	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	PC880/890/950/980 PC981
LED312	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	PC880/890/950/980 PC981
LED315	WG2 - 5185 - 000		1	LED, 7 SEGMENT	
LED316	WG1 - 5611 - 000		1	LED, EMAA3361X-J374K	PC890/960/980/981
LED317	WG1 - 5611 - 000		1	LED, EMAA3361X-J374K	PC890/960/980/981
LED318	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	
LED319	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	
LED320	WG1 - 5610 - 000		1	LED, EMPG3361X-J374K	
LED321	WG1 - 5611 - 000		1	LED, EMAA3361X-J374K	PC890/960/980/981

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FIGURE 930 DC CONTROLLER PCB ASSEMBLY

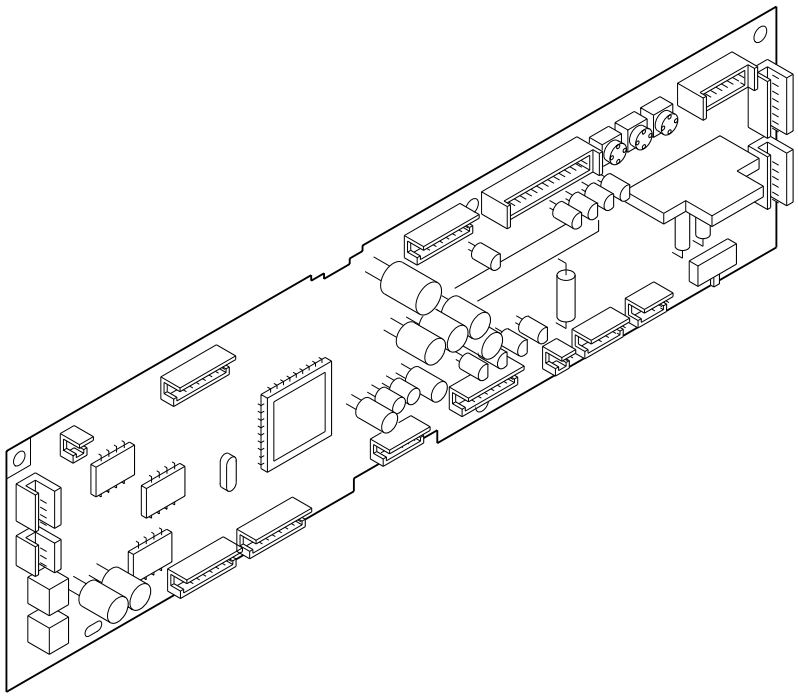

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
930 -	FG6 - 3778 - 000		1	DC CONTROLLER PCB ASSEMBLY	PC860/880 PC950 220/240V
	FG6 - 3783 - 00S		1	DC CONTROLLER PCB ASSEMBLY	PC890
	FG6 - 3777 - 000		1	DC CONTROLLER PCB ASSEMBLY	PC921 PC920 120V
	FG6 - 3779 - 000		1	DC CONTROLLER PCB ASSEMBLY	PC920 220/240V
	FG6 - 3776 - 000		1	DC CONTROLLER PCB ASSEMBLY	PC940/941 PC950 120V
	FG6 - 3774 - 000		1	DC CONTROLLER PCB ASSEMBLY	PC950 100V
	FG6 - 3782 - 000		1	DC CONTROLLER PCB ASSEMBLY	PC960
	FG6 - 3781 - 000		1	DC CONTROLLER PCB ASSEMBLY	PC980/981
Q101	FH4 - 1364 - 000		1	IC, HD6433042SK45F, MPU	
R399	VD7 - 1624 - 000		1	FUSE, 4A, 60V	

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FIGURE 935 ADF DC CONTROLLER PCB ASSEMBLY (ADF TYPE)

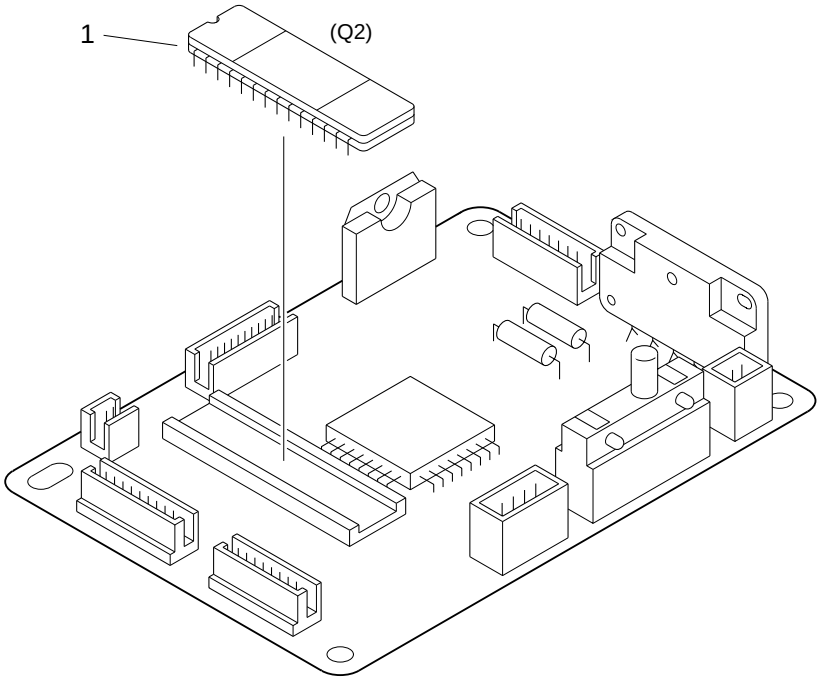

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
935 -	FG2 - 9891 - 000		1	ADF DC CONTROLLER PCB ASSEMBLY	ADF TYPE
1	FF3 - 3126 - 000		1	IC, M27C256B-15F1, EP-ROM	Q2

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FIGURE 940 NOISE FILTER PCB ASSEMBLY

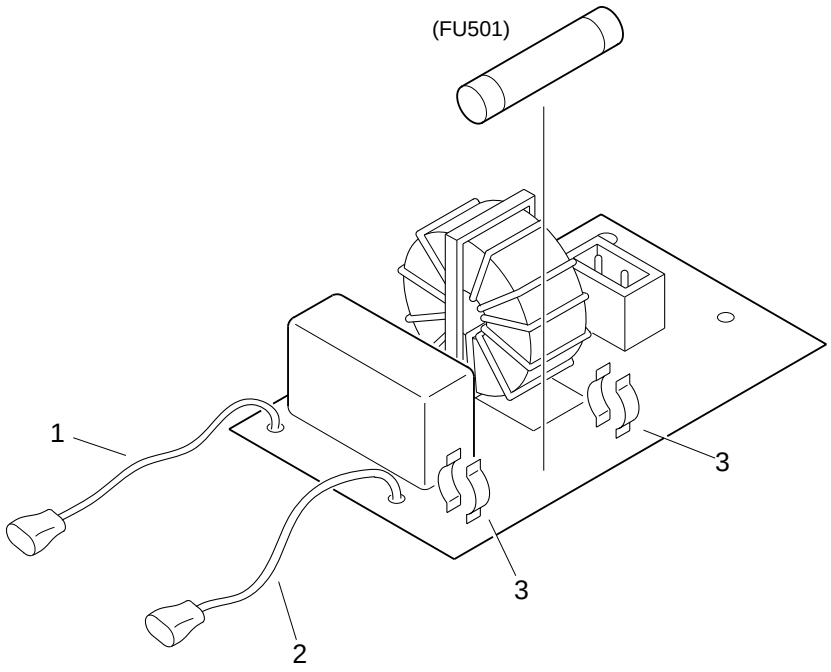

FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
940 -	FG6 - 3717 - 000		1	NOISE FILTER PCB ASSEMBLY	100V
	FG6 - 3709 - 000		1	NOISE FILTER PCB ASSEMBLY	120V
	FG6 - 3718 - 000		1	NOISE FILTER PCB ASSEMBLY	220/240V
1	FF3 - 3733 - 000		1	CABLE, INLET, 1	100/120V
2	FF3 - 3734 - 000		1	CABLE, INLET, 2	100/120V
3	WD9 - 5097 - 000		2	HOLDER, FUSE	100/120V
	WD9 - 5052 - 000		2	HOLDER, FUSE	220/240V
FU501	VD7 - 1731 - 502		1	FUSE, 250V, 15A	100/120V
	VD7 - 0646 - 301		1	FUSE	220/240V

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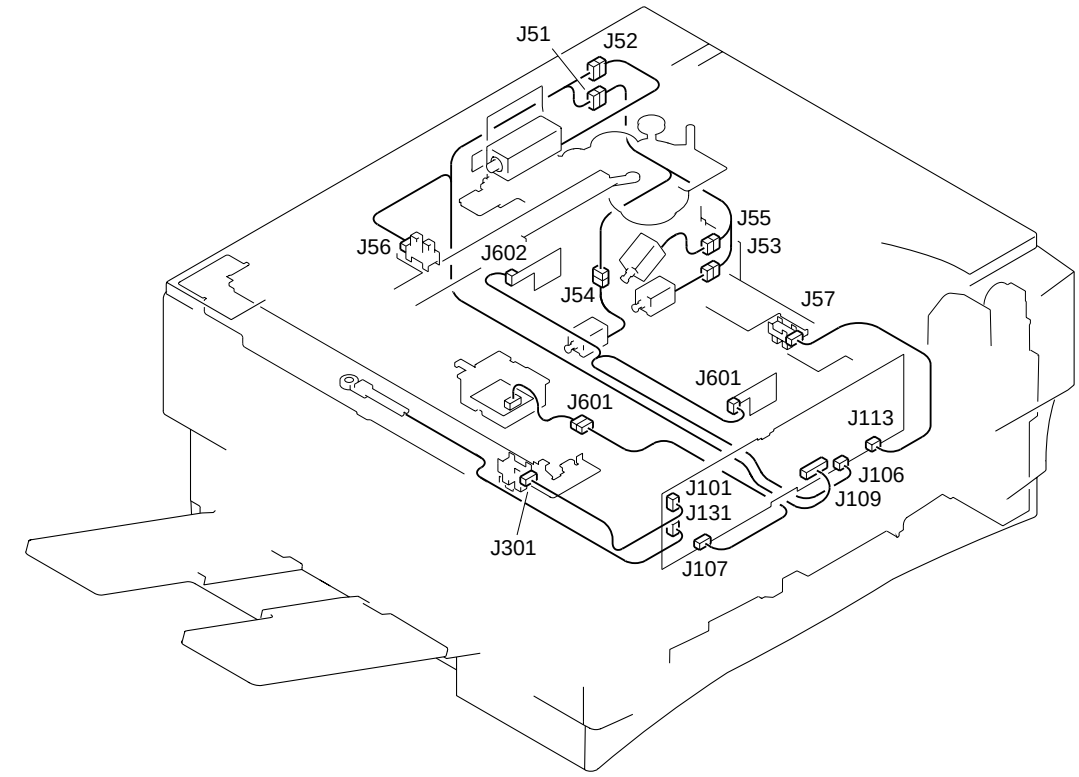
FIGURE B LIST OF CONNECTORS(1/2)



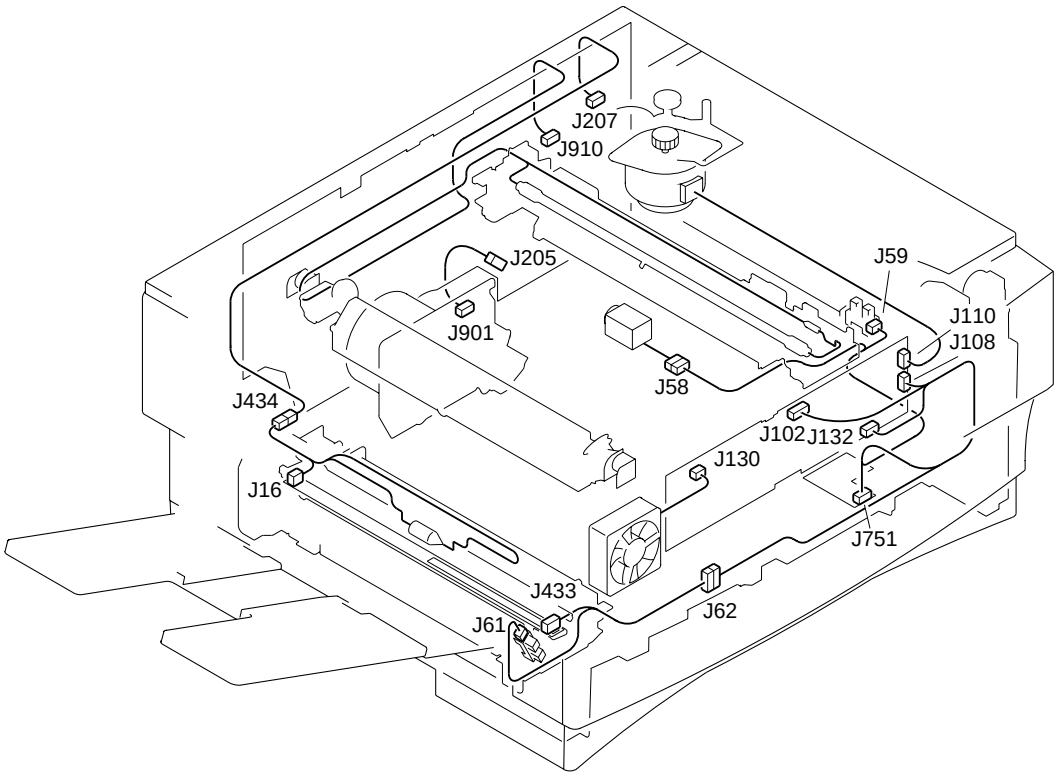


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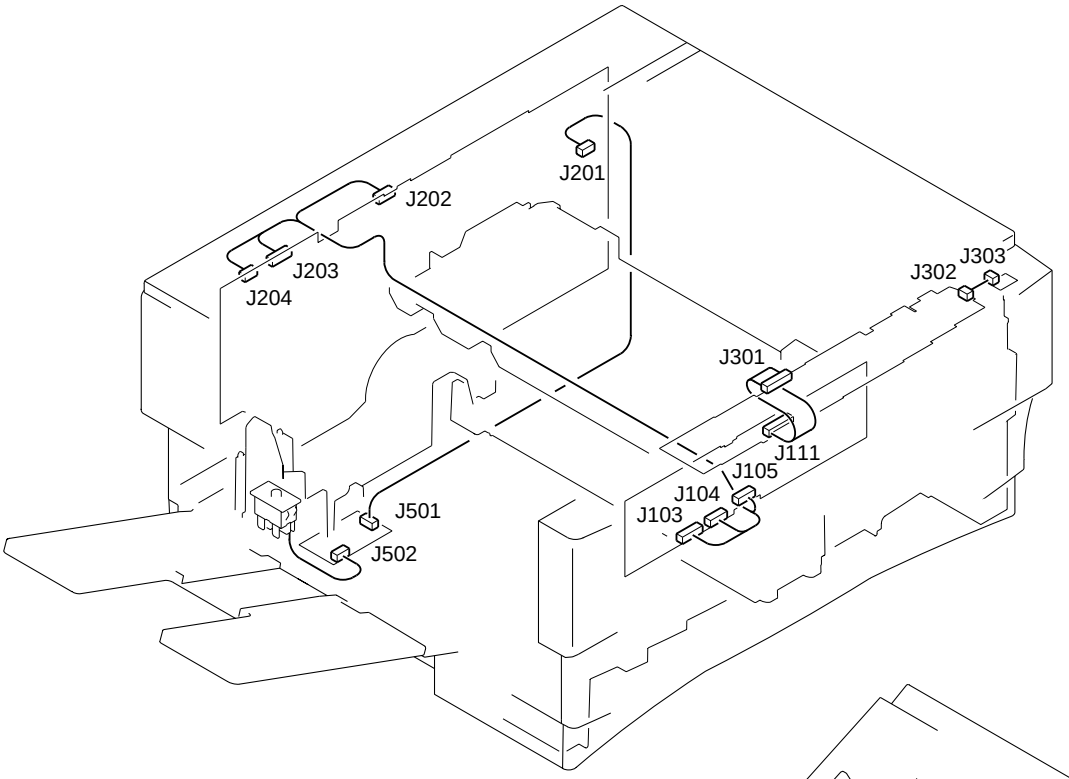
FIGURE B LIST OF CONNECTORS(2/2)



ADF TYPE

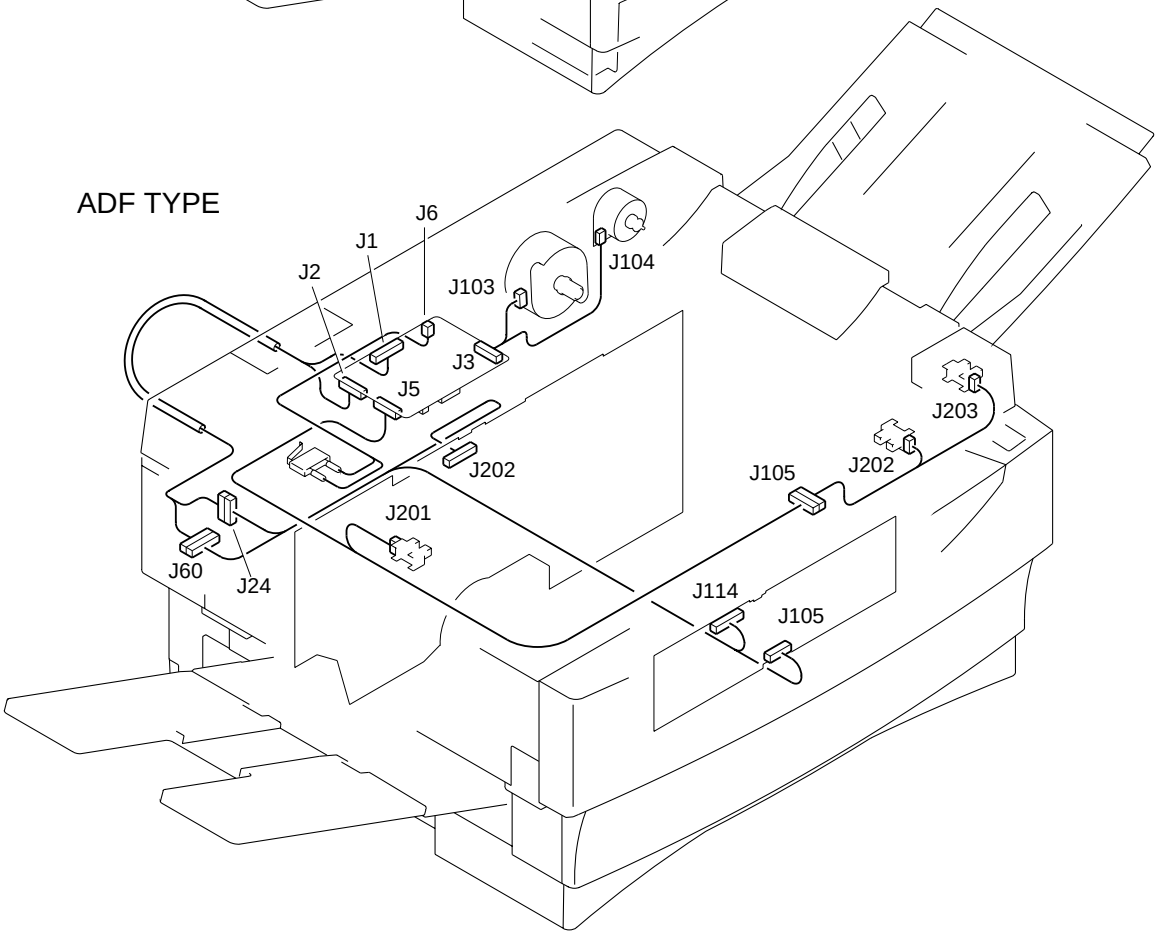


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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B -	NPN		RF	LIST OF CONNECTORS	
J 1	PCB			ADF CONTROLLER	ADF TYPE
	VS3 - 5083 - 004		1	CONNECTOR, 4P, FEMALE	ADF TYPE
	WS3 - 5160 - 000		4	SOCKET CONTACT, 18-24AWG	ADF TYPE
J 2	PCB			ADF CONTROLLER	ADF TYPE
	VS1 - 0842 - 008		1	CONNECTOR, 8P, FEMALE	ADF TYPE
J 3	PCB			ADF CONTROLLER	ADF TYPE
	VS1 - 0842 - 007		1	CONNECTOR, 7P, FEMALE	ADF TYPE
J 5	PCB			ADF CONTROLLER	ADF TYPE
	VS1 - 0842 - 009		1	CONNECTOR, 9P, FEMALE	ADF TYPE
J 6	PCB			ADF CONTROLLER	ADF TYPE
	VS3 - 5083 - 002		1	CONNECTOR, 2P, FEMALE	ADF TYPE
	WS3 - 5160 - 000		2	SOCKET CONTACT, 18-24AWG	ADF TYPE
J 16	NPN			FIXING HEATER	H1
	RH2 - 5316 - 000		1	CONNECTOR, 2P, MALE	
	RH2 - 5279 - 000		2	PIN CONTACT, 18AWG	
J 24	VS1 - 0279 - 004		1	CONNECTOR, 4P, FEMALE	ADF TYPE
	VS3 - 0108 - 004		1	CONNECTOR, 4P, MALE	ADF TYPE
	WS3 - 0885 - 000		4	PIN CONTACT, 20-30AWG	ADF TYPE
	WS4 - 0181 - 000		4	SOCKET CONTACT	ADF TYPE
J 51	VS1 - 0842 - 006		2	CONNECTOR, 6P, FEMALE	
	VS1 - 5057 - 006		1	CONNECTOR, SNAP TIGHT	
J 52	NPN			LENS DRIVE SOLENOID	SL3
	VS1 - 0842 - 002		1	CONNECTOR, 2P, FEMALE	
	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT	
J 53	NPN			PICKUP CLUTCH SOLENOID	SL1
	VS1 - 0842 - 002		1	CONNECTOR, 2P, FEMALE	
	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT	
J 54	NPN			REGIST. CLUTCH SOLENOID	SL2
	VS1 - 0842 - 002		1	CONNECTOR, 2P, FEMALE	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B - J 5 4	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT	
J 5 5	NPN			MULTIFEEDER PICKUP SOLENOID	MULTI TYPE SL4
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE	MULTI TYPE
	VS1 - 5057 - 003		1	CONNECTOR, SNAP TIGHT	MULTI TYPE
J 5 6	NPN			LENS HOME POSITION SENSOR	PS2
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE	
J 5 7	NPN			SINGLEFEEDER PAPER SENSOR	SINGLE TYPE PS5
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE	SINGLE TYPE
J 5 8	NPN			CASSETTE PICKUP SOLENOID	SL5
	VS1 - 0842 - 002		1	CONNECTOR, 2P, FEMALE	
	VS1 - 5057 - 002		1	CONNECTOR, SNAP TIGHT	
J 5 9	NPN			VERTICAL PATH ROLLER SENSOR	PS4
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE	
J 6 0	VS1 - 0842 - 008		2	CONNECTOR, 8P, FEMALE	ADF TYPE
	VS1 - 5057 - 008		1	CONNECTOR, SNAP TIGHT	ADF TYPE
J 6 1	NPN			DELIVERY SENSOR	PS3
	VS1 - 5824 - 003		1	CONNECTOR, 3P, FEMALE	
	WS3 - 5358 - 000		3	SOCKET CONTACT, 22-26AWG	
J 6 2	VS1 - 0842 - 009		1	CONNECTOR, 9P, FEMALE	
	VS1 - 5824 - 009		1	CONNECTOR, 9P, FEMALE	
	WS3 - 5358 - 000		5	SOCKET CONTACT, 22-26AWG	
	VS1 - 5057 - 009		1	CONNECTOR, SNAP TIGHT	
J 1 0 1	PCB			DC CONTROLLER	
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE	
J 1 0 2	PCB			DC CONTROLLER	
	VS1 - 0842 - 009		1	CONNECTOR, 9P, FEMALE	
J 1 0 3	PCB			DC CONTROLLER	
	VS1 - 0842 - 008		1	CONNECTOR, 8P, FEMALE	
	NPN			BELT DRIVE MOTOR	ADF TYPE M1
	VS1 - 0842 - 005		1	CONNECTOR, 5P, FEMALE	ADF TYPE

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B- J104	PCB			DC CONTROLLER	
	VS1 - 0842 - 007		1	CONNECTOR, 7P, FEMALE	
	NPN			PICK-UP DRIVE MOTOR	ADF TYPE M2
	VS1 - 0842 - 002		1	CONNECTOR, 2P, FEMALE	ADF TYPE
J105	PCB			DC CONTROLLER	
	VS1 - 0279 - 006		1	CONNECTOR, 6P, FEMALE	
	WS3 - 0437 - 000		6	SOCKET CONTACT, 20-30AWG	
	VS1 - 0842 - 006		2	CONNECTOR, 6P, FEMALE	ADF TYPE
	VS1 - 5057 - 006		1	CONNECTOR, SNAP TIGHT	ADF TYPE
J106	PCB			DC CONTROLLER	
	VS1 - 5824 - 002		1	CONNECTOR, 2P, FEMALE	
	WS3 - 5358 - 000		2	SOCKET CONTACT, 22-26AWG	
J107	PCB			DC CONTROLLER	
	VS1 - 0842 - 004		1	CONNECTOR, 4P, FEMALE	
J108	PCB			DC CONTROLLER	
	VS1 - 0842 - 005		1	CONNECTOR, 5P, FEMALE	
J109	PCB			DC CONTROLLER	
	VS1 - 0842 - 011		1	CONNECTOR, 11P, FEMALE	
J110	PCB			DC CONTROLLER	
	NPN			SCANNER/LENS DRIVE MOTOR	M2
J111	PCB			DC CONTROLLER	
	FH2 - 6709 - 000		1	CABLE, FLAT	
J113	PCB			DC CONTROLLER	SINGLE TYPE
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE	SINGLE TYPE
J114	PCB			DC CONTROLLER	ADF TYPE
	VS1 - 0842 - 008		1	CONNECTOR, 8P, FEMALE	ADF TYPE
J130	PCB			DC CONTROLLER	
	NPN			SCANNER COOLING FAN	FM1
J131	PCB			DC CONTROLLER	
	NPN			SCANNER THERMISTOR	TH2

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B - J132	PCB			DC CONTROLLER	
	VS1 - 0842 - 005		1	CONNECTOR, 5P, FEMALE	
J201	PCB			DC POWER SUPPLY	
	WS3 - 5175 - 000		1	CONNECTOR, 2P, FEMALE	
	WS3 - 5174 - 000		2	SOCKET CONTACT, 16-20AWG	
	NPN			PAPER DELIVERY SENSOR	ADF TYPE PI1
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE	ADF TYPE
J202	PCB			DC POWER SUPPLY	
	VS3 - 5083 - 006		1	CONNECTOR, 6P, FEMALE	
	WS3 - 5160 - 000		6	SOCKET CONTACT, 18-24AWG	
	NPN			REGISTRATION SENSOR	ADF TYPE PI2
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE	ADF TYPE
J203	PCB			DC POWER SUPPLY	
	VS1 - 0842 - 008		1	CONNECTOR, 8P, FEMALE	
	NPN			PAPER PICK-UP SENSOR	ADF TYPE PI3
	VS1 - 0852 - 003		1	CONNECTOR, 3P, FEMALE	ADF TYPE
J204	PCB			DC POWER SUPPLY	
	VS1 - 0842 - 007		1	CONNECTOR, 7P, FEMALE	
J205	PCB			DC POWER SUPPLY	
	VS1 - 5976 - 004		1	CONNECTOR, 4P, MALE	
J207	PCB			DC POWER SUPPLY	
	WS3 - 5175 - 000		1	CONNECTOR, 2P, FEMALE	
	WS3 - 5174 - 000		2	SOCKET CONTACT, 16-20AWG	
J301	PCB			CONTROL PANEL	
	VS1 - 0842 - 003		1	CONNECTOR, 3P, FEMALE	
	NPN			SCANNER HOME POSITION SENSOR	PS1
	FH2 - 6709 - 000		1	CABLE, FLAT	
J302	PCB			CONTROL PANEL	
	VS1 - 6023 - 002		1	CONNECTOR, 2P, MALE	
J303	PCB			CONTROL PANEL	

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FIGURE & KEY NO.	PART NUMBER	RANK	Q'TY	DESCRIPTION	SERIAL NUMBER / REMARKS
B - J303	VS1 - 6023 - 002		1	CONNECTOR, 2P, MALE	
J433	NPN			FIXING THERMISTOR	TH1
	RH2 - 5317 - 000		1	CONNECTOR, 2P, MALE	
	RH2 - 5281 - 000		2	PIN CONTACT, 26AWG	
J434	VS3 - 5116 - 002		1	CONNECTOR, 2P, MALE	
	VS3 - 5117 - 002		1	CONNECTOR, 2P, FEMALE	
	WS3 - 5174 - 000		2	SOCKET CONTACT, 16-20AWG	
	WS3 - 5354 - 000		2	PIN CONTACT, 16-20AWG	
J501	PCB			NOISE FILTER	
	WS3 - 5175 - 000		1	CONNECTOR, 2P, FEMALE	
	WS3 - 5174 - 000		2	SOCKET CONTACT, 16-20AWG	
J502	PCB			NOISE FILTER	220/240V
	WS3 - 5175 - 000		1	CONNECTOR, 2P, FEMALE	220/240V
	WS3 - 5174 - 000		1	SOCKET CONTACT, 16-20AWG	220/240V
J601	PCB			AE SENSOR	
	VS1 - 0842 - 004		1	CONNECTOR, 4P, FEMALE	
	VS1 - 5057 - 004		1	CONNECTOR, SNAP TIGHT	
	PCB			SIDE BLANK	
	VS1 - 5824 - 002		1	CONNECTOR, 2P, FEMALE	
	WS3 - 5358 - 000		2	SOCKET CONTACT, 22-26AWG	
J602	PCB			SIDE BLANK	
	VS1 - 5824 - 002		1	CONNECTOR, 2P, FEMALE	
	WS3 - 5358 - 000		2	SOCKET CONTACT, 22-26AWG	
J751	PCB			SENSOR PCB	
	VS1 - 0842 - 005		1	CONNECTOR, 5P, FEMALE	
J901	NPN			MAIN MOTOR	M1
	VS1 - 0842 - 004		1	CONNECTOR, 4P, FEMALE	
J910	PCB			DC POWER SUPPLY	
	VS3 - 5083 - 003		1	CONNECTOR, 3P, FEMALE	
	WS3 - 5160 - 000		2	SOCKET CONTACT, 18-24AWG	

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PART NUMBER	FIGURE & KEY NO.
FA5 - 2864 - 020	161 - 1
	290 - 1
FA9 - 2568 - 000	102 - 1
FA9 - 2873 - 000	161 - 2
FA9 - 3063 - 000	530 - 16A
FA9 - 3066 - 000	101 - 1
FA9 - 3268 - 000	290 - 2
FA9 - 3668 - 000	290 - 3
FB1 - 0624 - 000	100 - 1
FB1 - 0733 - 000	160 - 1
FB1 - 7267 - 000	102 - 2
FB1 - 7270 - 000	102 - 3
FB1 - 7283 - 000	100 - 2
FB1 - 7295 - 000	100 - 37A
FB1 - 7303 - 000	100 - 3
FB1 - 7403 - 000	100 - 4
FB1 - 7425 - 000	530 - 1
FB1 - 7427 - 000	530 - 2
FB1 - 7431 - 000	530 - 3
FB1 - 8835 - 000	100 - 5
FB1 - 8870 - 000	160 - 2
FB2 - 4603 - 000	101 - 2
FB2 - 4606 - 000	100 - 6
FB2 - 4607 - 000	100 - 7
FB2 - 4610 - 000	101 - 3
FB2 - 4611 - 000	101 - 4
FB2 - 4612 - 000	101 - 5
FB2 - 4613 - 000	101 - 6
FB2 - 4614 - 000	101 - 7
FB2 - 4616 - 000	220 - 1
	401 - 1
FB2 - 4622 - 020	101 - 8
FB2 - 4627 - 000	101 - 9
FB2 - 4628 - 000	101 - 10
FB2 - 4629 - 020	101 - 11
FB2 - 4669 - 020	401 - 2
FB2 - 4676 - 000	401 - 3
FB2 - 4677 - 020	401 - 4
FB2 - 4678 - 020	401 - 5
FB2 - 4691 - 000	101 - 12
FB2 - 4694 - 020	402 - 1
FB2 - 4695 - 030	402 - 2
FB2 - 4701 - 020	220 - 2
FB2 - 4702 - 000	220 - 3
FB2 - 4703 - 000	220 - 4
FB2 - 4704 - 000	220 - 5
FB2 - 4705 - 000	220 - 6
FB2 - 4734 - 000	101 - 13
FB2 - 4736 - 000	101 - 14
FB2 - 4759 - 000	450 - 1
FB2 - 4760 - 000	450 - 2
FB2 - 4771 - 000	101 - 15
FB2 - 4773 - 000	101 - 16
FB2 - 4781 - 000	102 - 4
FB2 - 4782 - 000	102 - 5
FB2 - 4785 - 000	100 - 8
FB2 - 4790 - 020	100 - 9
FB2 - 4791 - 000	100 - 39A
FB2 - 4792 - 000	101 - 17
FB2 - 4793 - 000	100 - 39B
FB2 - 4794 - 000	100 - 39C
FB2 - 4840 - 000	101 - 18
FB2 - 4861 - 000	530 - 4
FB2 - 4862 - 000	530 - 5
FB2 - 4870 - 000	101 - 19
FB2 - 4875 - 000	101 - 20
FB2 - 4877 - 000	101 - 21
FB2 - 4900 - 000	915 - 1
FB2 - 4906 - 020	101 - 22
FB2 - 4927 - 000	230 - 1
FB2 - 4929 - 000	102 - 6
FB2 - 4930 - 000	102 - 7
FB2 - 4939 - 000	530 - 6
FB2 - 4942 - 000	101 - 23
FB2 - 5040 - 000	810 - 1
FB2 - 5041 - 000	810 - 2
FB2 - 5042 - 020	810 - 3
FB2 - 5057 - 000	101 - 24
FB2 - 5058 - 000	101 - 45A
FB2 - 5059 - 000	101 - 25
FB2 - 5156 - 000	530 - 7
FB2 - 5161 - 030	102 - 8
FB2 - 5162 - 000	102 - 9
FB2 - 5163 - 000	102 - 10
FB2 - 5164 - 000	102 - 11
FB2 - 5169 - 000	530 - 8
FB2 - 5175 - 000	100 - 21
FB2 - 5176 - 000	100 - 21
FB2 - 5177 - 000	100 - 10
FB2 - 5183 - 000	102 - 12
FB2 - 5198 - 000	250 - 1
FB2 - 5210 - 000	100 - 11
FB2 - 5213 - 000	100 - 12
FB2 - 5214 - 020	100 - 13
FB2 - 5215 - 020	100 - 14
FB2 - 5217 - 020	100 - 15
FB2 - 5221 - 020	102 - 13
FB2 - 5222 - 000	102 - 14
FB2 - 5223 - 000	102 - 15
FB2 - 5240 - 020	100 - 16
FB2 - 5247 - 000	100 - 26A
FB2 - 5266 - 000	102 - 12
FB2 - 5275 - 000	251 - 1
FB2 - 5276 - 000	102 - 45
FB2 - 5303 - 000	102 - 16
FB2 - 5304 - 000	102 - 17
FB2 - 5305 - 000	102 - 18
FB2 - 5309 - 000	102 - 19
FB2 - 5310 - 000	102 - 20
FB2 - 5424 - 000	160 - 3
FB2 - 5426 - 000	100 - 34
FB2 - 5428 - 000	100 - 17
FB2 - 5500 - 000	100 - 18
FB2 - 5501 - 030	101 - 26
FB2 - 5502 - 000	100 - 19
FB2 - 9617 - 000	810 - 4
FB2 - 9651 - 000	810 - 5
FB2 - 9653 - 000	810 - 6
FB3 - 0626 - 020	101 - 27
FB3 - 0630 - 000	101 - 28
FB3 - 0632 - 020	101 - 29
FB3 - 0633 - 000	101 - 30
FB3 - 0639 - 020	101 - 31
FB3 - 0733 - 000	102 - 21
FB3 - 0817 - 000	100 - 40A
FB3 - 0824 - 000	100 - 20
FB3 - 0829 - 000	161 - 3
FB3 - 0835 - 000	161 - 42A
FB3 - 0839 - 020	100 - 8
FB3 - 3311 - 000	161 - 4
FB3 - 3312 - 000	161 - 5
FB3 - 3314 - 020	161 - 6
FB3 - 3315 - 020	161 - 7
FB3 - 3316 - 000	161 - 8
FB3 - 3321 - 000	161 - 9
FB3 - 3322 - 000	161 - 10
FB3 - 3323 - 000	161 - 11
FB3 - 3324 - 000	161 - 12
FB3 - 3325 - 000	161 - 13
FB3 - 3326 - 000	161 - 14
FB3 - 3329 - 000	161 - 15
FB3 - 3330 - 000	161 - 16
FB3 - 3332 - 000	161 - 17
FB3 - 3335 - 000	161 - 18
FB3 - 3336 - 000	161 - 19
FB3 - 3338 - 000	161 - 20
FB3 - 3342 - 000	161 - 21
FB3 - 3343 - 000	161 - 22
FB3 - 3344 - 000	161 - 23
FB3 - 3345 - 000	161 - 24
FB3 - 3346 - 000	161 - 25
FB3 - 3347 - 000	161 - 26
FB3 - 3348 - 000	161 - 27
FB3 - 3350 - 000	161 - 39A
FB3 - 3353 - 000	290 - 4
FB3 - 3356 - 000	161 - 28
FB3 - 3357 - 020	161 - 29
FB3 - 3358 - 000	161 - 30
FB3 - 3360 - 030	161 - 31
FB3 - 3361 - 000	161 - 32
FB3 - 3364 - 000	161 - 33
FB3 - 3365 - 000	161 - 34
FB3 - 3371 - 000	290 - 5
FB3 - 3373 - 020	290 - 6
FB3 - 3377 - 000	290 - 7
FB3 - 3379 - 000	355 - 1
FB3 - 3381 - 000	355 - 2
FB3 - 3382 - 000	355 - 3
FB3 - 3383 - 000	355 - 4
FB3 - 3385 - 020	355 - 5
FB3 - 3386 - 000	355 - 6
FB3 - 3387 - 000	355 - 7
FB3 - 3388 - 000	355 - 8
FB3 - 3389 - 000	355 - 11A
FB3 - 3392 - 000	162 - 5A
	162 - 6A
FB3 - 3395 - 000	162 - 1
FB3 - 3396 - 000	162 - 2
FB3 - 3397 - 000	162 - 3
FB3 - 3400 - 000	290 - 8
FB3 - 3401 - 000	161 - 35
FB3 - 3402 - 020	161 - 36
FB3 - 3408 - 000	355 - 9
FB4 - 1096 - 000	100 - 21
FB4 - 1148 - 000	290 - 9
FB4 - 1149 - 000	290 - 10
FB4 - 1150 - 000	290 - 11
FB4 - 1151 - 000	290 - 12
FB4 - 1152 - 000	290 - 13
FB4 - 1154 - 000	161 - 40A
FB4 - 1159 - 000	162 - 4
FB4 - 1194 - 000	101 - 32
FB4 - 1195 - 000	100 - 22
FB4 - 1196 - 000	100 - 23
FB4 - 1260 - 000	100 - 24
FB4 - 1261 - 000	100 - 25
FB4 - 9802 - 000	102 - 22
FB4 - 9803 - 000	102 - 22
FB4 - 9808 - 000	102 - 23
FB4 - 9810 - 000	102 - 24
FB4 - 9811 - 000	102 - 25
FB4 - 9812 - 000	102 - 26
FB4 - 9813 - 000	102 - 27
FB4 - 9814 - 000	102 - 28
FB4 - 9815 - 000	102 - 29
FB4 - 9817 - 000	102 - 30
FB4 - 9818 - 000	102 - 31
FB4 - 9819 - 000	102 - 32
FB4 - 9820 - 000	102 - 33
FB4 - 9821 - 000	102 - 34
FB4 - 9822 - 000	102 - 35
FB4 - 9823 - 000	102 - 36
FB4 - 9824 - 000	102 - 37
FB4 - 9827 - 000	100 - 26
FB4 - 9830 - 000	102 - 38
FB4 - 9834 - 000	100 - 41A
FB4 - 9835 - 000	251 - 2
FB4 - 9863 - 000	810 - 7
FB4 - 9864 - 000	810 - 8
FB4 - 9866 - 000	810 - 9
FB4 - 9867 - 000	810 - 10
FB4 - 9872 - 000	810 - 11
FB4 - 9873 - 000	810 - 12
FB4 - 9875 - 000	810 - 13
FB4 - 9877 - 000	810 - 14
FB4 - 9878 - 000	810 - 15
FB4 - 9881 - 000	102 - 39
FB4 - 9887 - 000	160 - 4
FB4 - 9888 - 000	100 - 27
FB4 - 9893 - 000	230 - 2
FB4 - 9895 - 000	100 - 28
FB4 - 9896 - 000	100 - 28
FB4 - 9897 - 000	100 - 28
FB4 - 9898 - 000	100 - 29
FB4 - 9899 - 000	100 - 30
FB4 - 9900 - 000	100 - 30
FB4 - 9902 - 000	100 - 30
FB4 - 9905 - 000	810 - 16
FB4 - 9906 - 000	100 - 31
FB4 - 9908 - 000	102 - 40
FB5 - 0058 - 000	400 - 1
FB5 - 0059 - 000	400 - 2
FB5 - 0060 - 000	400 - 3
FB5 - 0069 - 000	400 - 4
FB5 - 0070 - 000	400 - 5
FB5 - 0071 - 000	400 - 6
FB5 - 0074 - 000	400 - 7
FB5 - 0075 - 000	400 - 8
FB5 - 0080 - 000	400 - 9
FB5 - 0086 - 000	101 - 33
FB5 - 0088 - 000	101 - 34
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FB5 - 0097 - 000	101 - 28
FB5 - 0099 - 000	915 - 2
FB5 - 0108 - 000	400 - 11
FB5 - 0120 - 000	100 - 32
FB5 - 0122 - 000	130 - 3
FB5 - 0123 - 000	130 - 1
FB5 - 0124 - 000	130 - 2
FB5 - 0125 - 000	130 - 4
FB5 - 0126 - 000	130 - 5
FB5 - 0127 - 000	130 - 6
FB5 - 0128 - 000	130 - 7
FB5 - 0135 - 000	130 - 3
FB5 - 0136 - 000	130 - 3
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